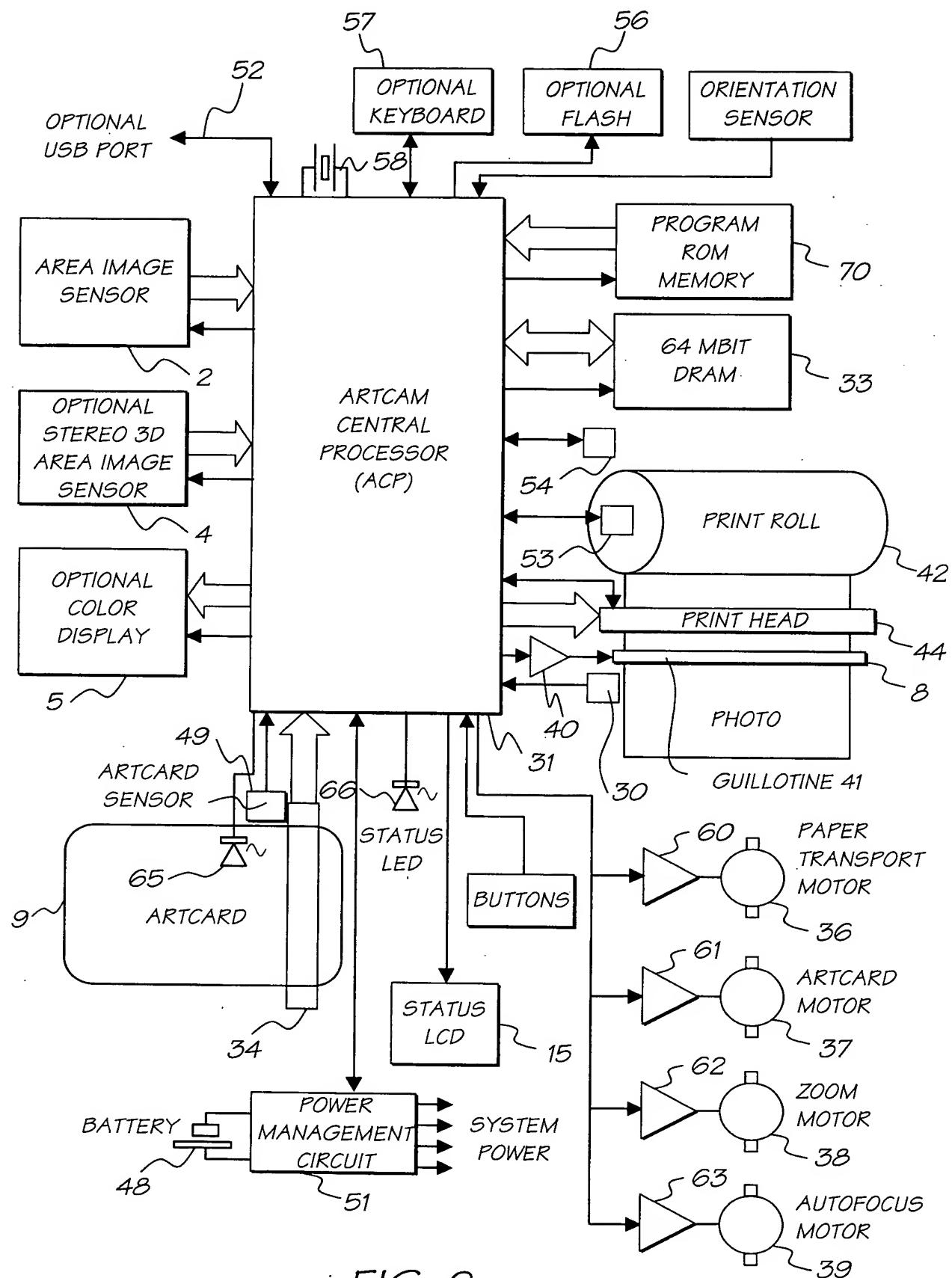


FIG. 1



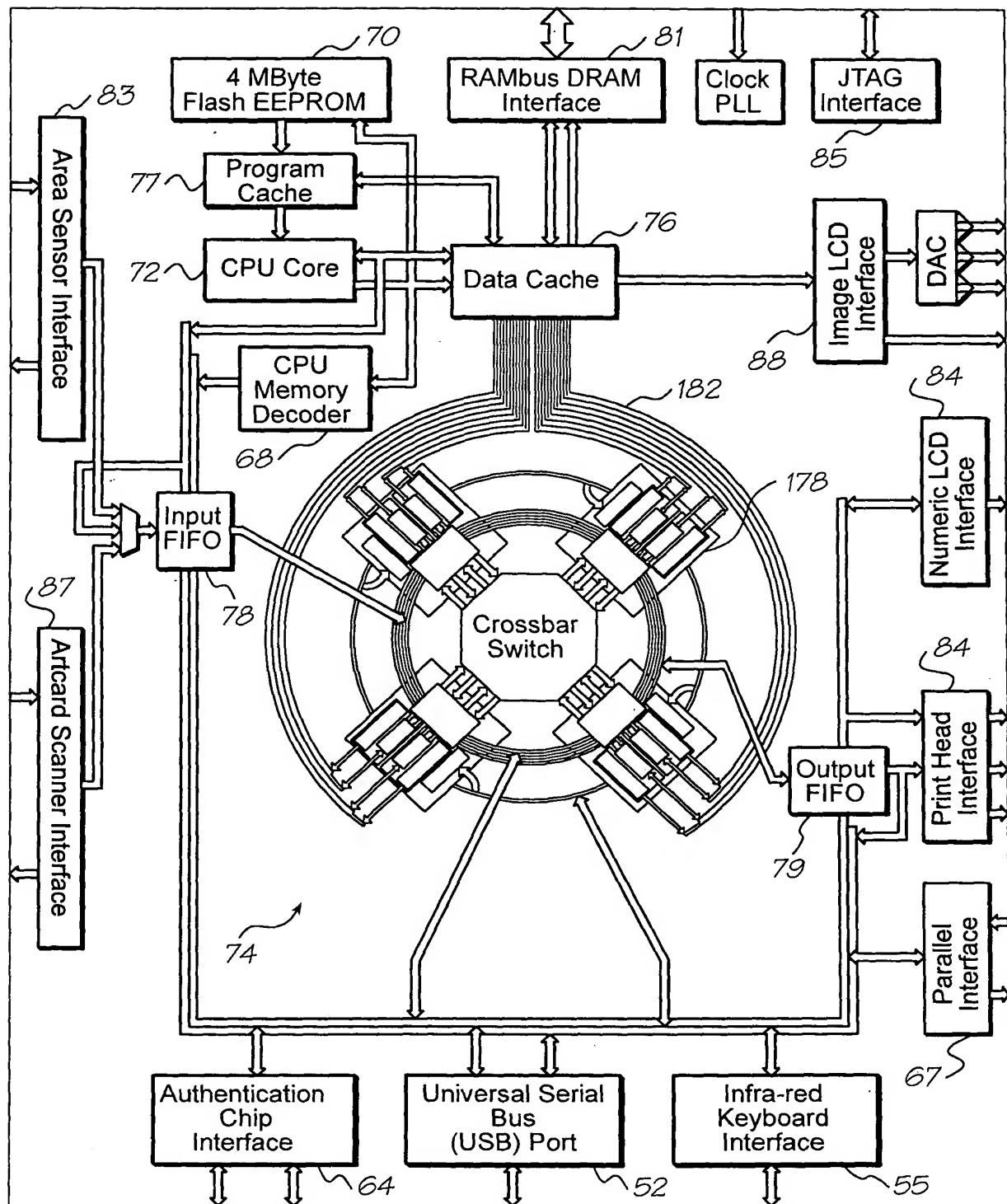
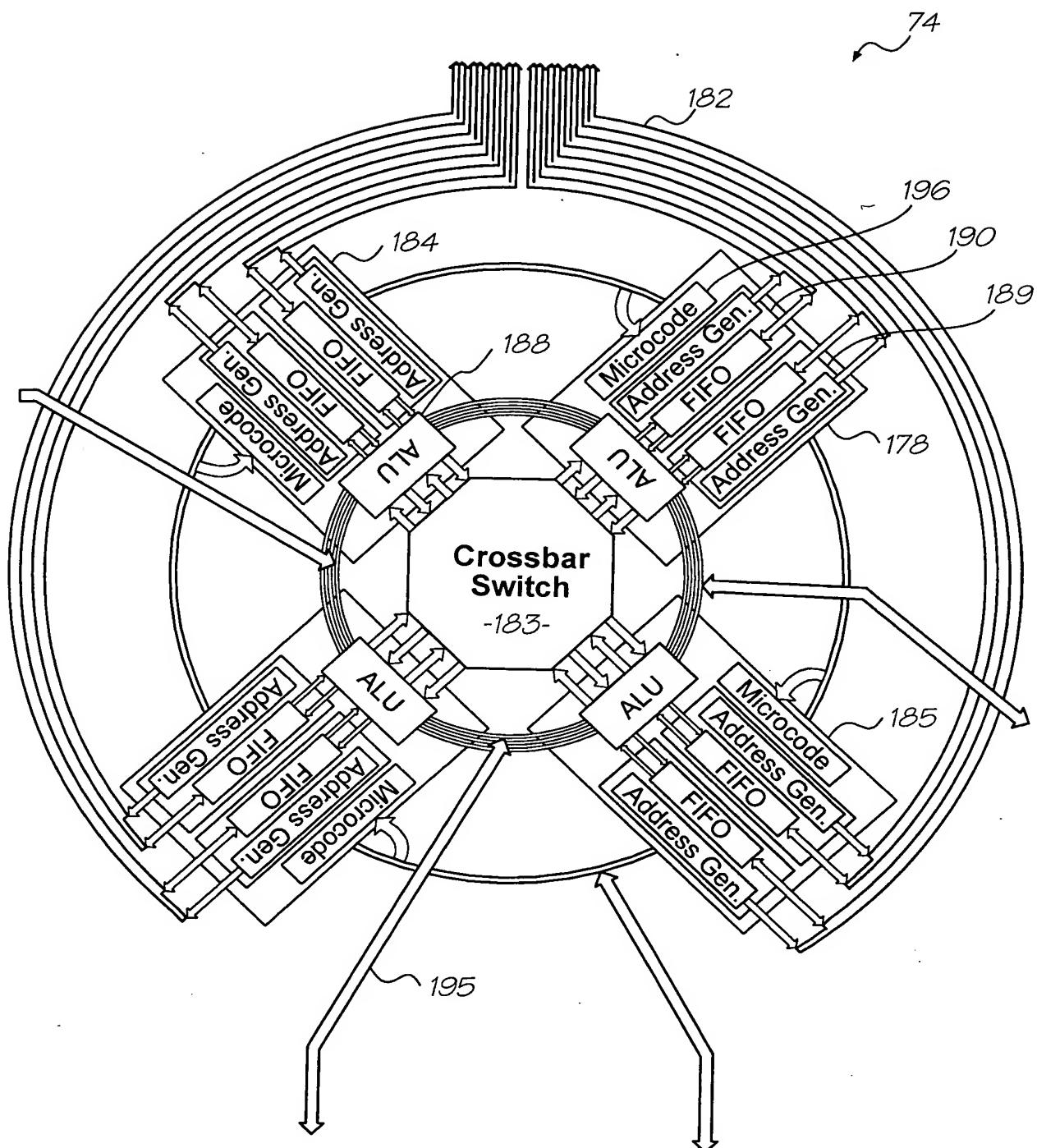


FIG. 3



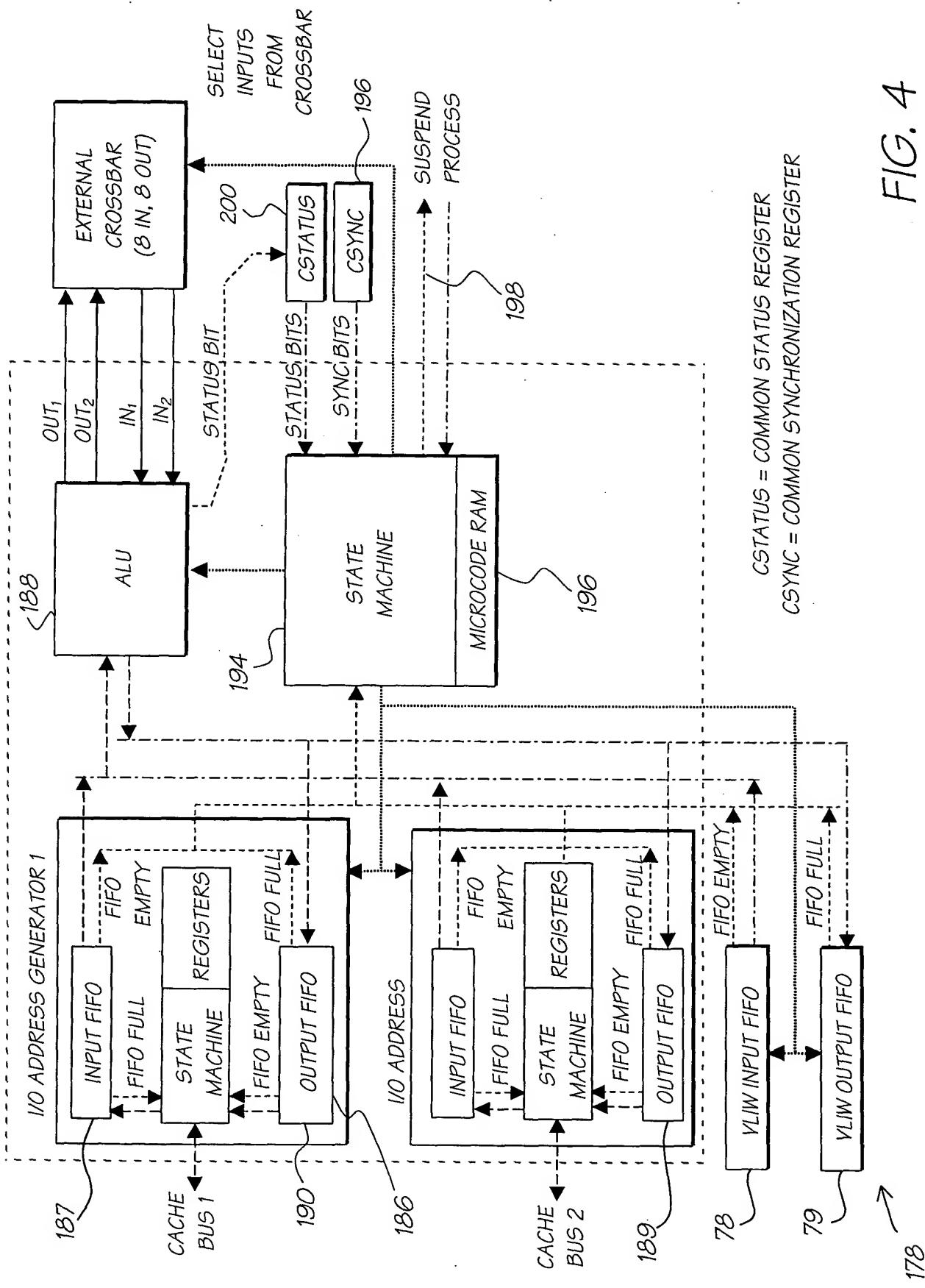


FIG. 4

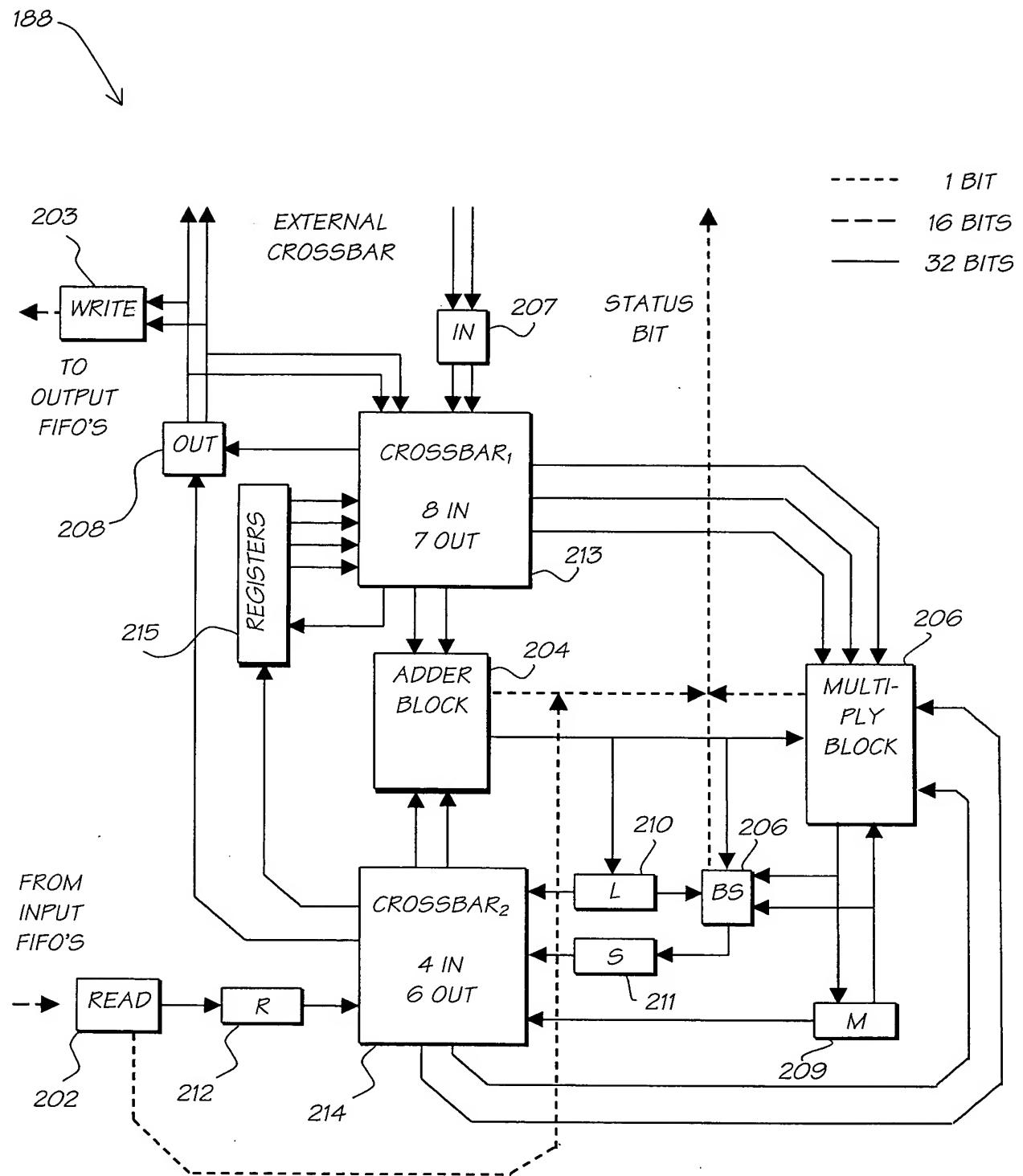


FIG. 5

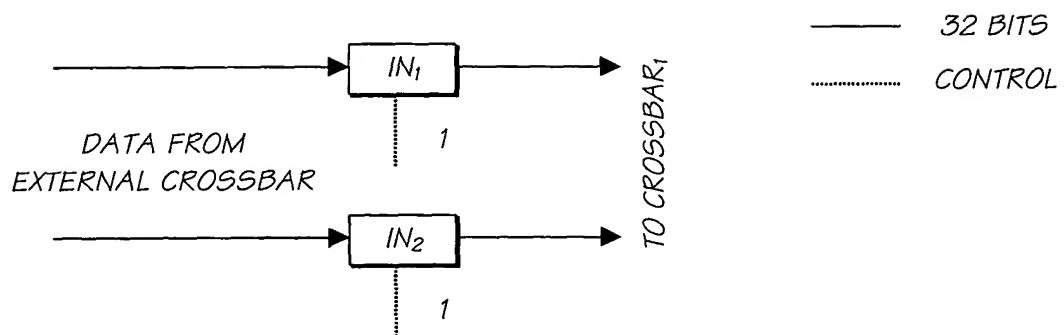


FIG. 6

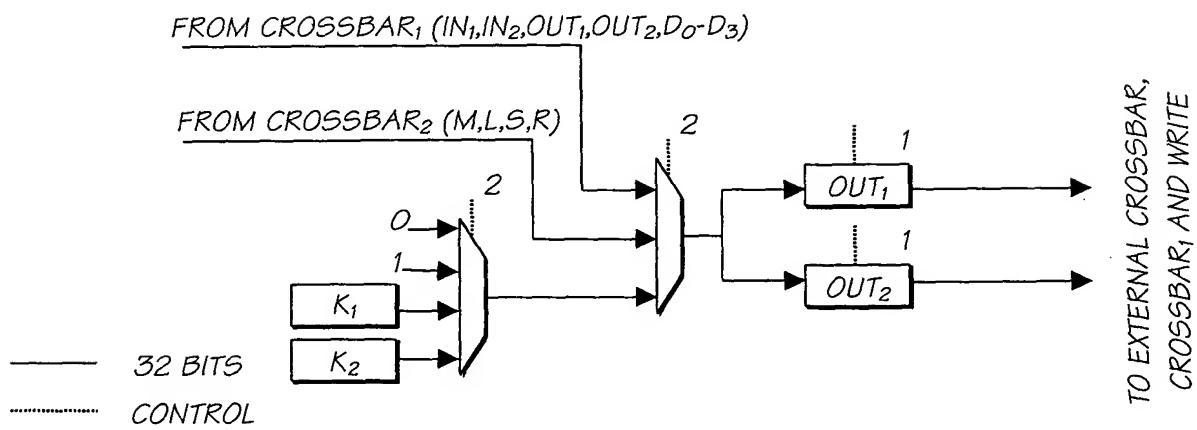


FIG. 7

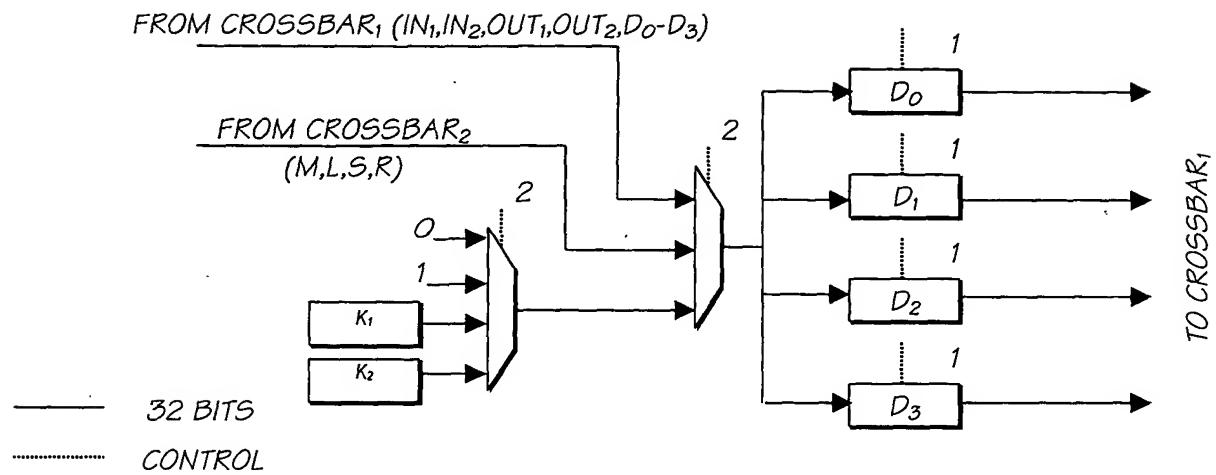


FIG. 8

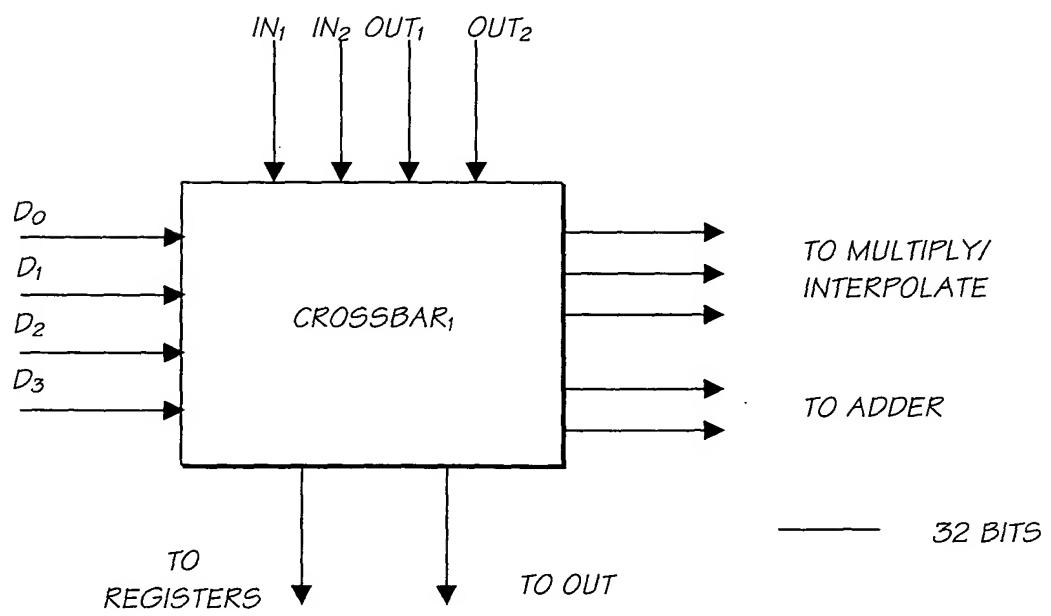


FIG. 9

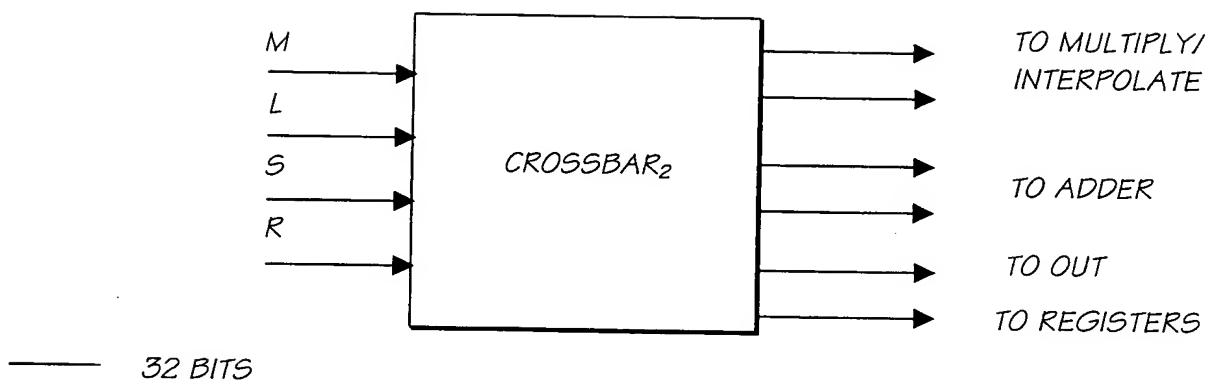


FIG. 10

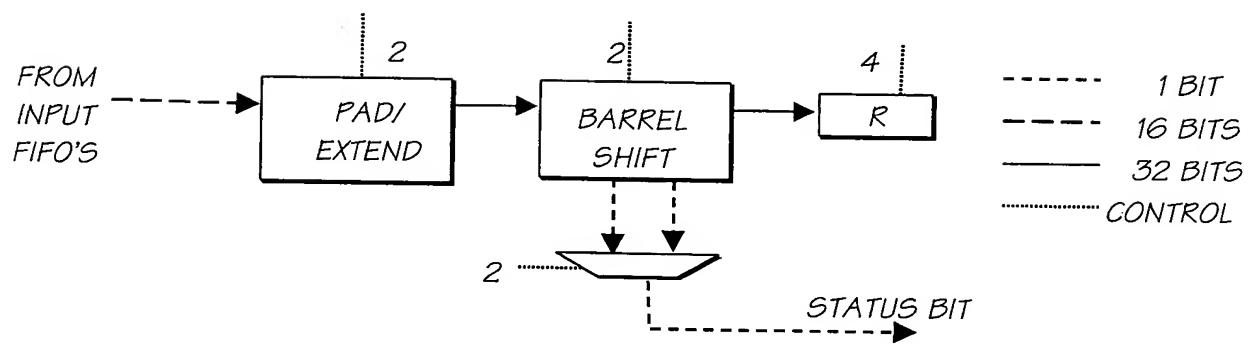


FIG. 11

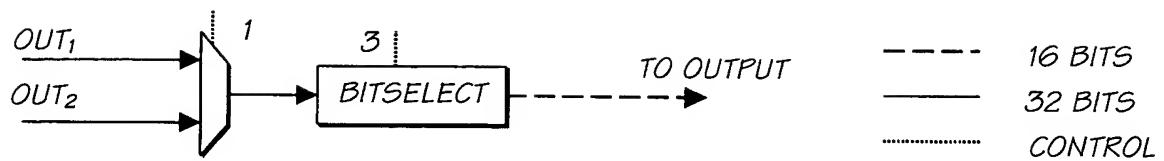


FIG. 12

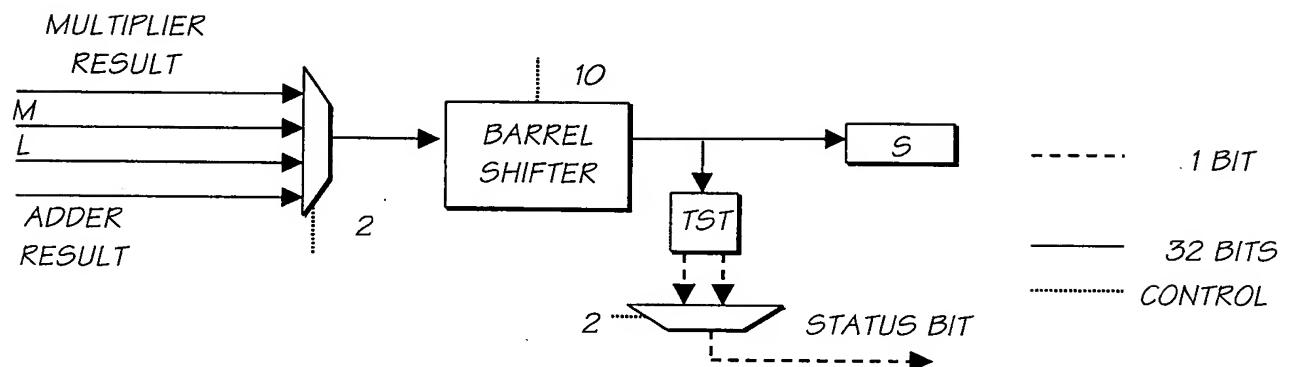


FIG. 13

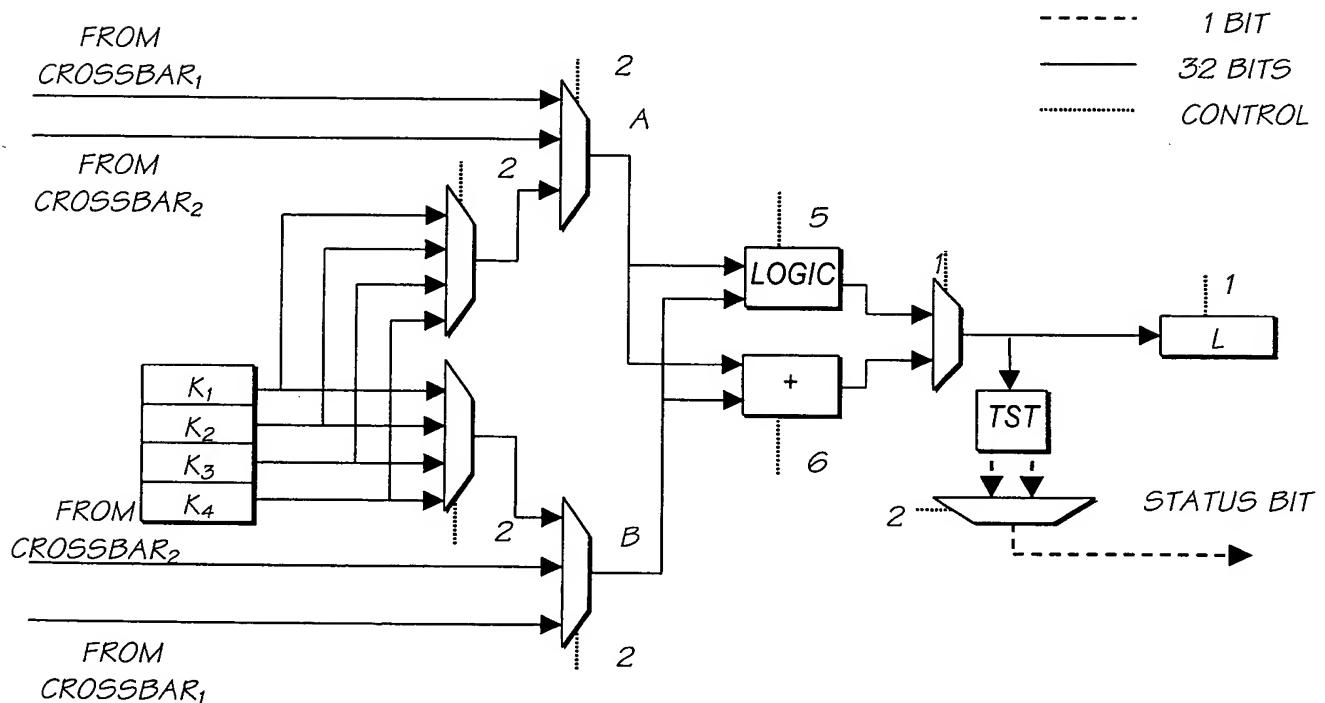


FIG. 14

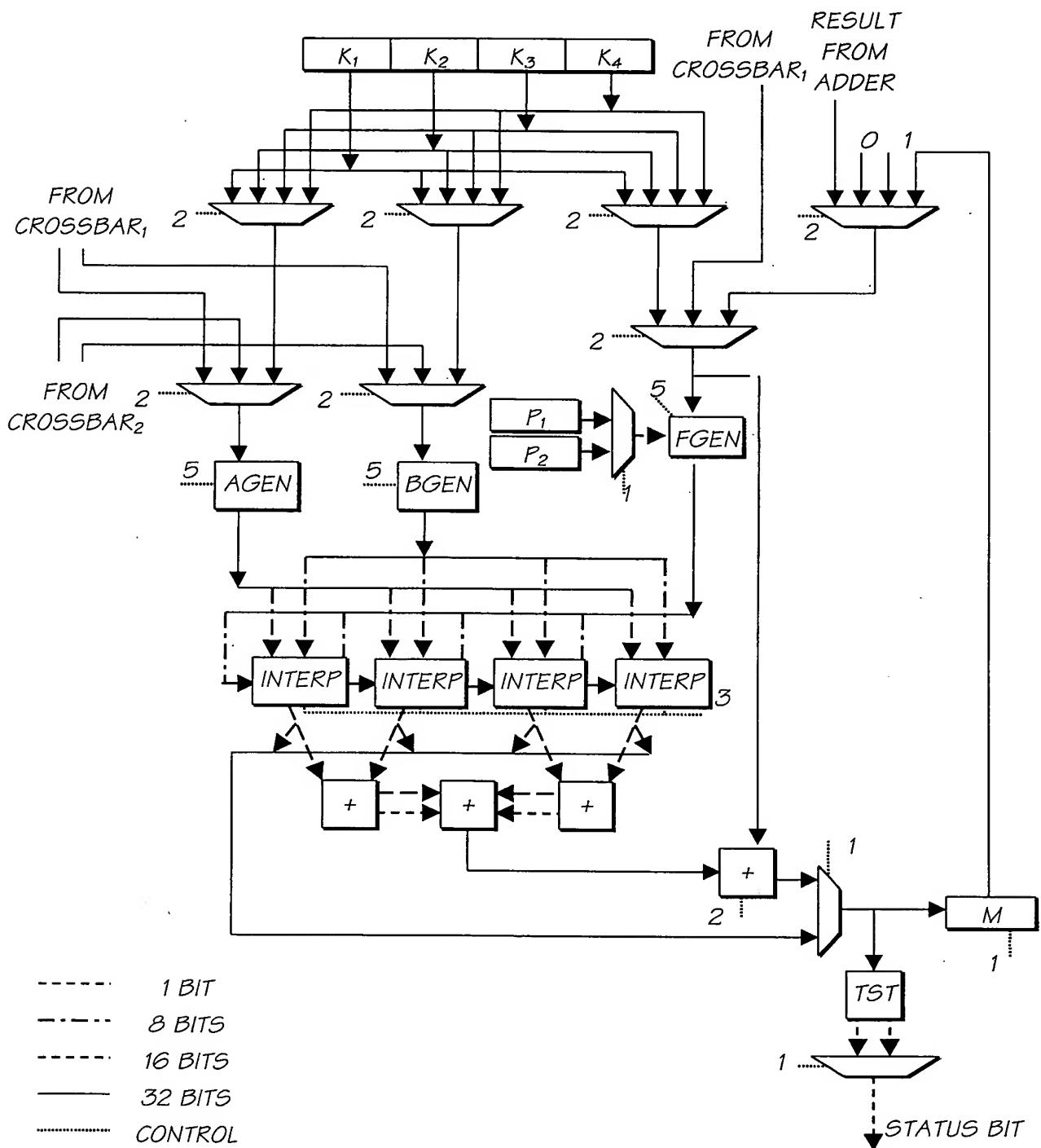


FIG. 15

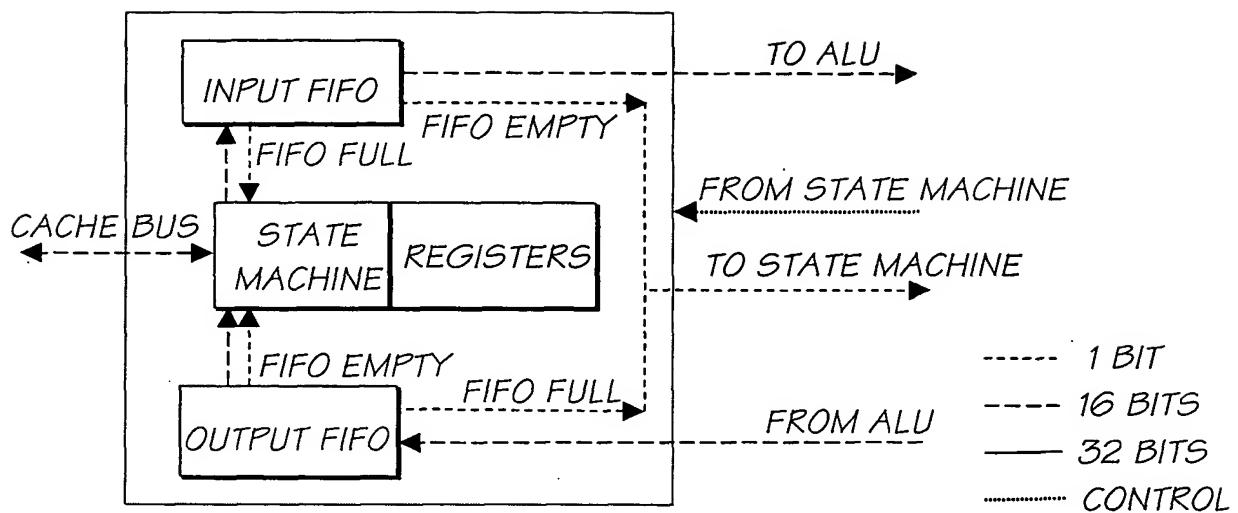


FIG. 16

ORDER OF PIXELS PRESENTED BY A SEQUENTIAL READ ITERATOR  
ON A  $4 \times 2$  IMAGE WITH PADDING.

0	1	2	3	
4	5	6	7	

FIG. 17

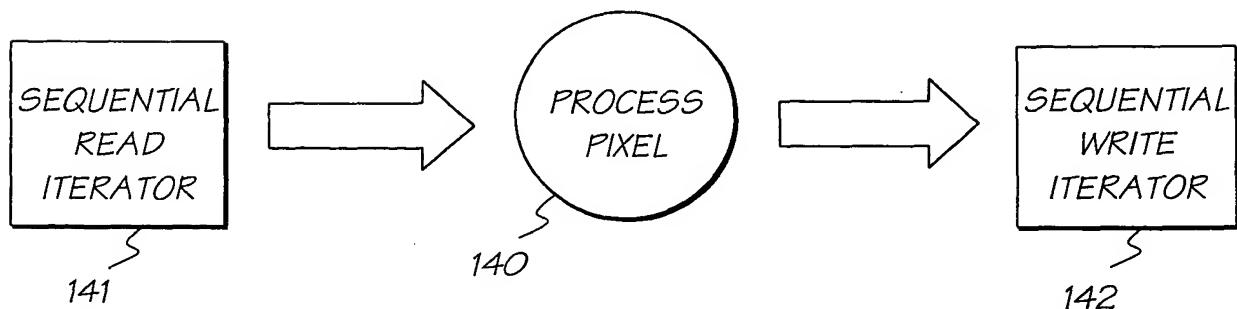
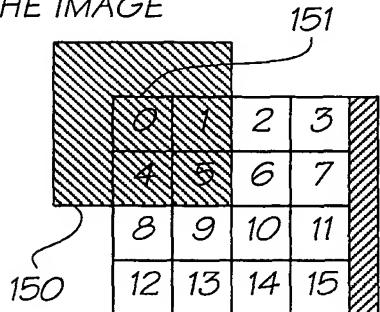


FIG. 18

A  $3 \times 3$  BOX VIEW TRAVERSES THE PIXELS IN ORDER: 0, 1, 2, 3, 4, 5, 6, 7, 8 ETC, PLACING A  $3 \times 3$  BOX CENTERED OVER EACH PIXEL...

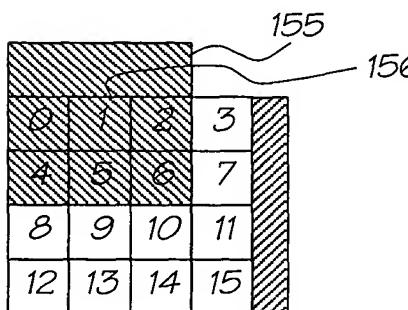
$3 \times 3$  BOX VIEW OF FIRST PIXEL IN IMAGE = 9 PIXELS, 5 OF WHICH ARE OUTSIDE THE IMAGE



FIRST 9 PIXELS FROM THE BOX READ ITERATOR:

152  
 IF DUPLICATION OF EDGE PIXELS IS ON: 0, 0, 0, 0, 0, 1, 4, 4, 5  
 IF DUPLICATION OF EDGE PIXELS IS OFF: V, V, V, V, 0, 1, V, 4, 5  
 WHERE V IS CONSTANTPIXEL REGISTER VALUE REPRESENTING "OUTSIDE THE IMAGE"

$3 \times 3$  BOX VIEW OF SECOND PIXEL IN IMAGE = 9 PIXELS, 3 OF WHICH ARE OUTSIDE THE IMAGE



SECOND 9 PIXELS FROM THE BOX READ ITERATOR:

153  
 IF DUPLICATION OF EDGE PIXELS IS ON: 0, 1, 2, 0, 1, 2, 4, 5, 6  
 IF DUPLICATION OF EDGE PIXELS IS OFF: V, V, V, 0, 1, 2, 4, 5, 6  
 WHERE V IS CONSTANTPIXEL REGISTER VALUE REPRESENTING "OUTSIDE THE IMAGE"

FIG. 19

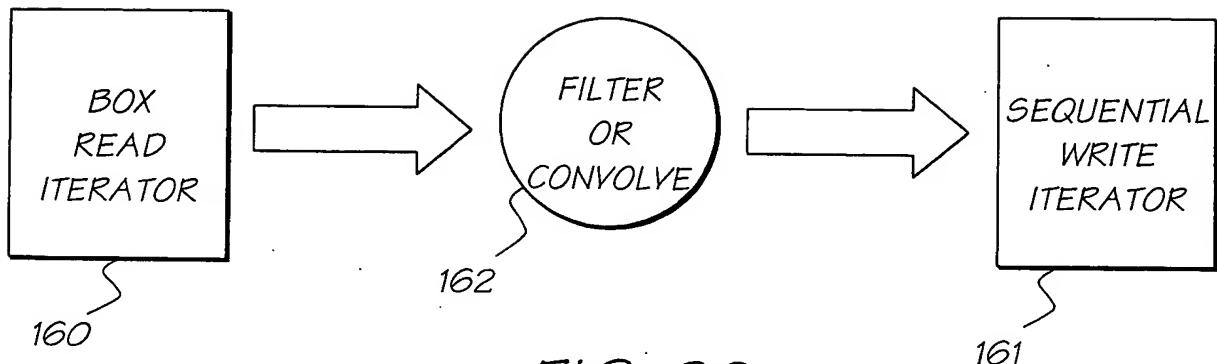
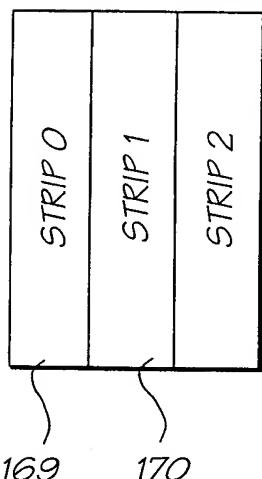
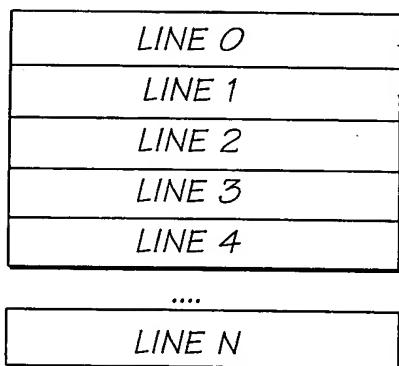


FIG. 20

IMAGE BROKEN INTO  
VERTICAL STRIPS,  
EACH STRIP IS 32  
PIXELS ACROSS



LINES ARE ACCESSED  
LINE 0 TO LINE N  
WITHIN A SINGLE STRIP.



PIXELS ARE ACCESSED  
PIXEL 0 - PIXEL 31  
WITHIN A SINGLE LINE

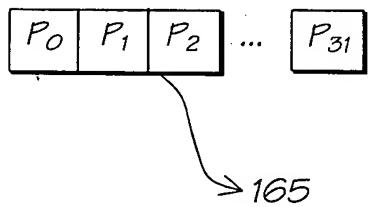


FIG. 21

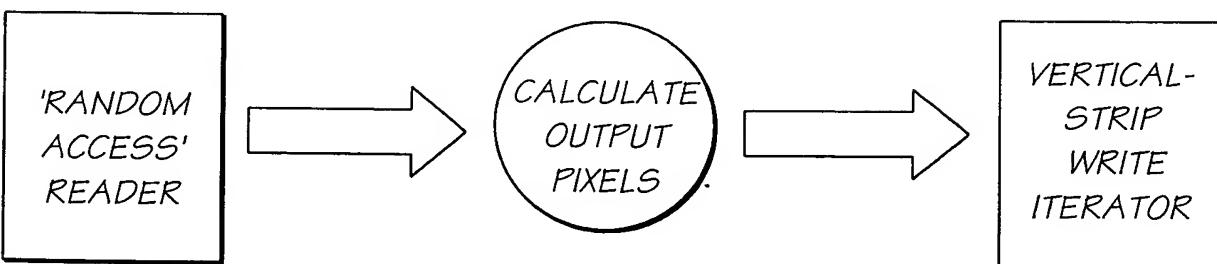


FIG. 22

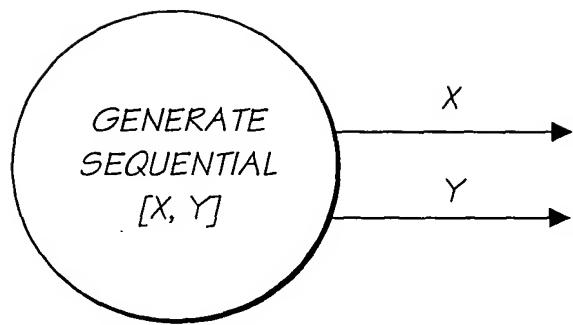


FIG. 23

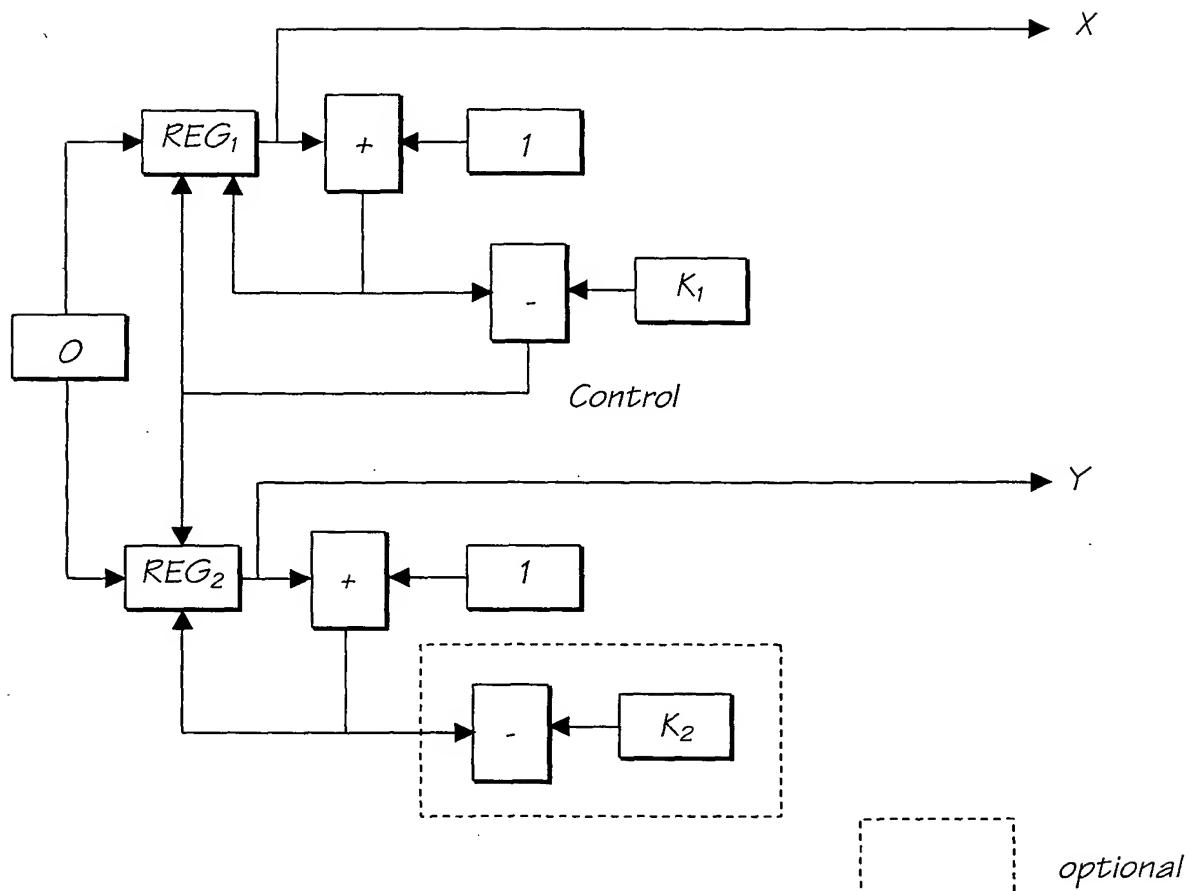


FIG. 24

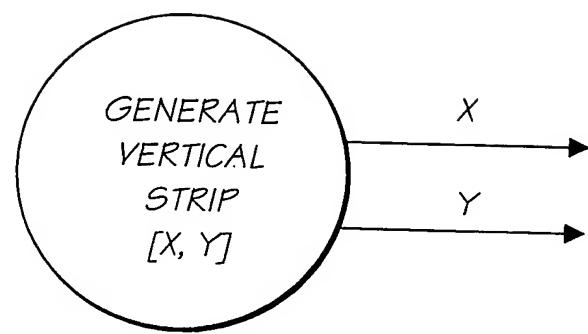


FIG. 25

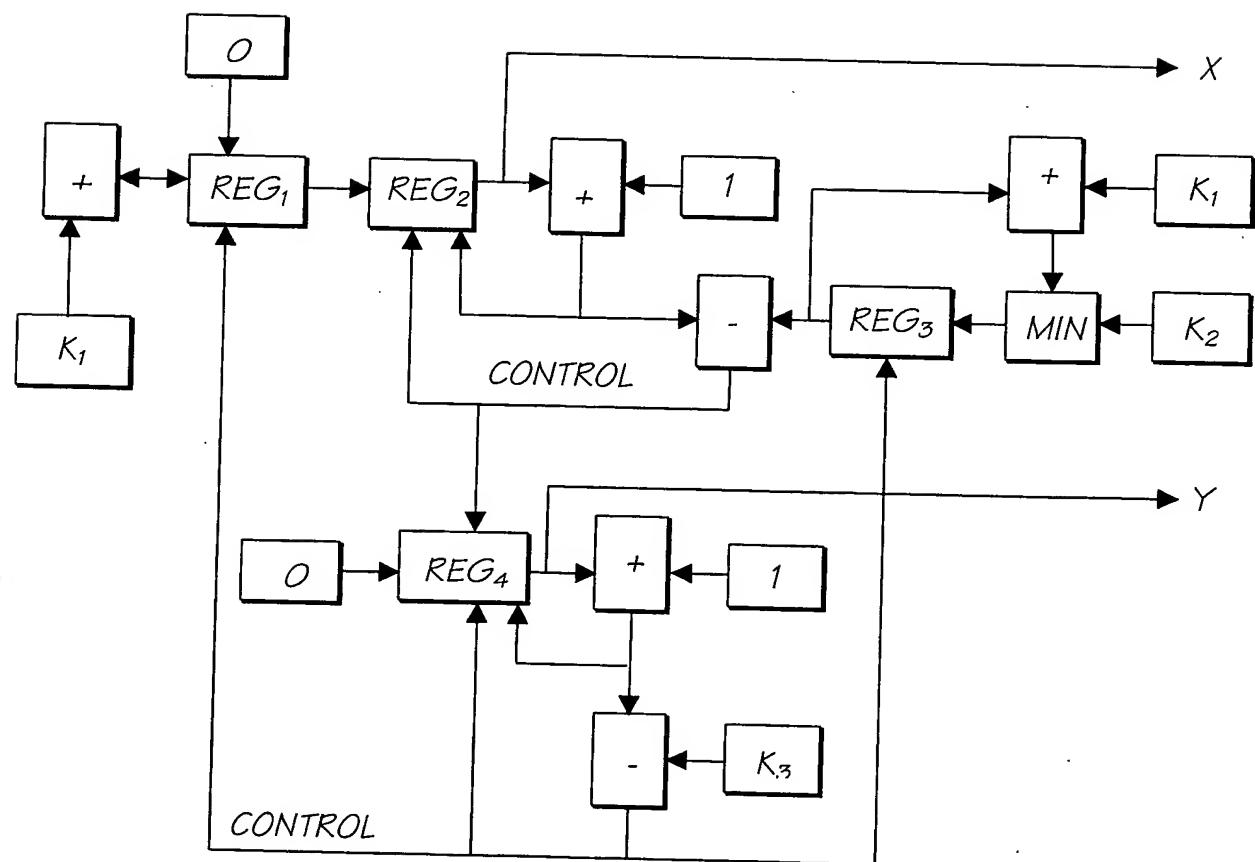
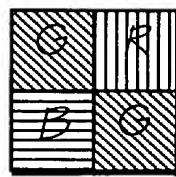


FIG. 26



2X2 PIXEL BLOCK FROM SENSOR

FIG. 27

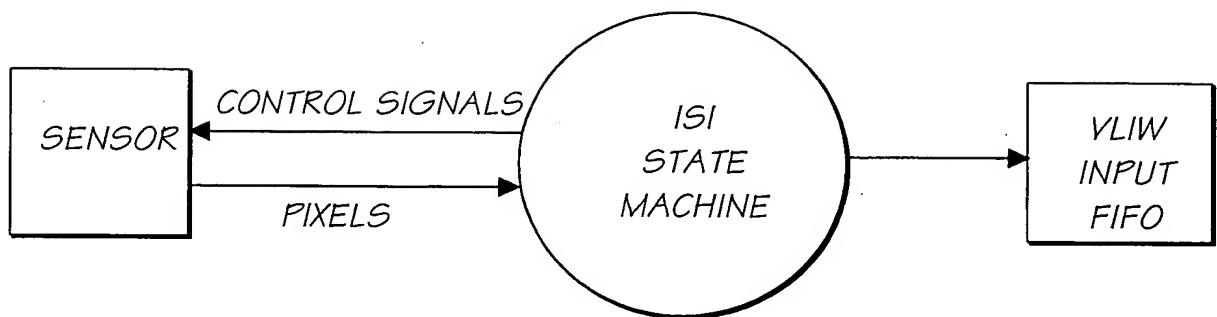


FIG. 28

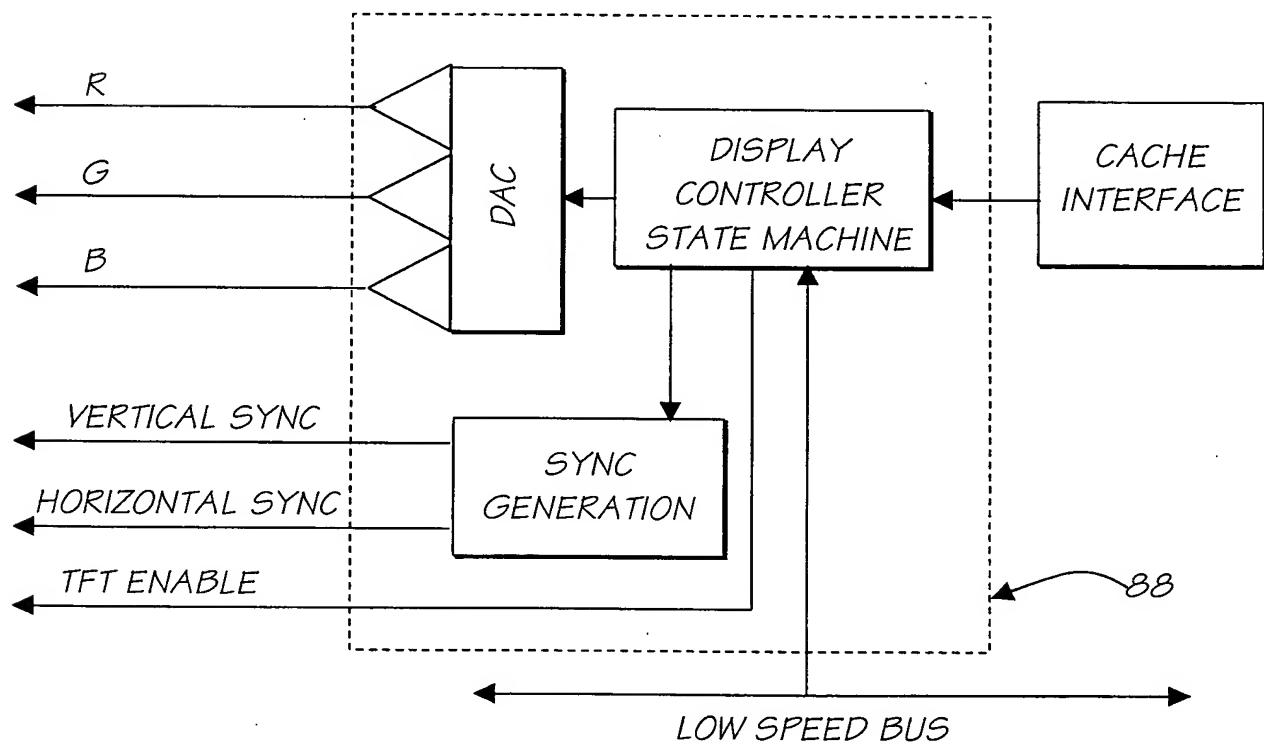
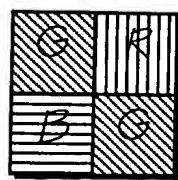


FIG. 29



2X2 PIXEL BLOCK FROM CCD

FIG. 30

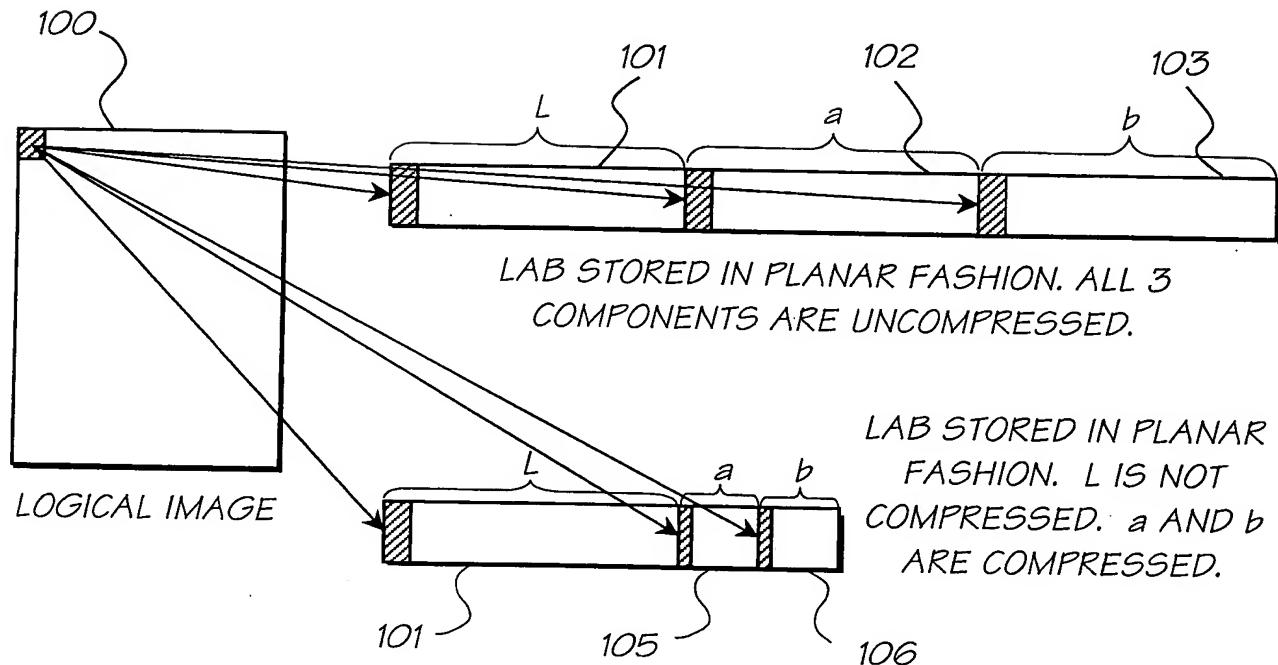


FIG. 31

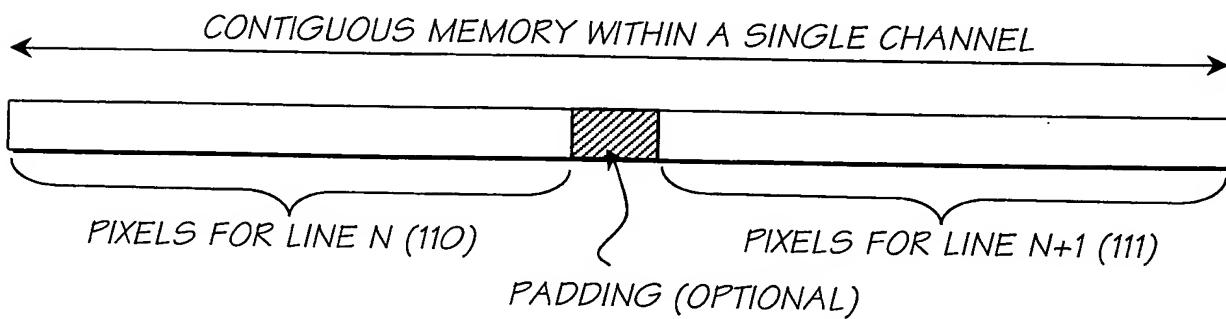


FIG. 32

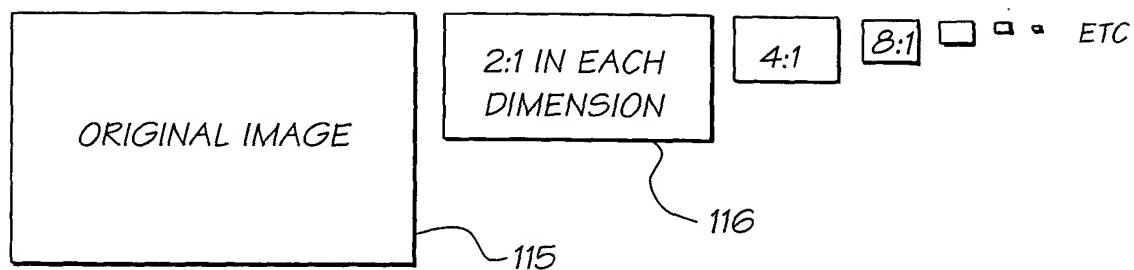


FIG. 33

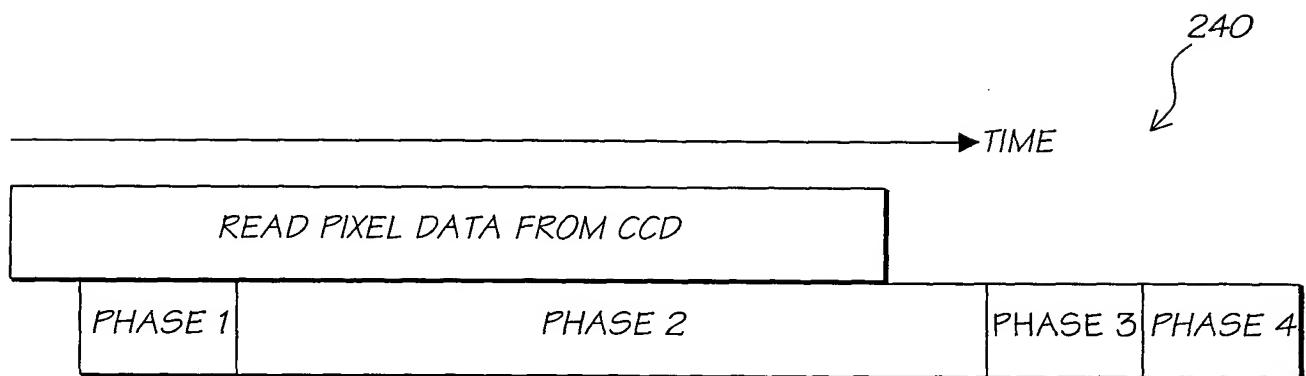


FIG. 34

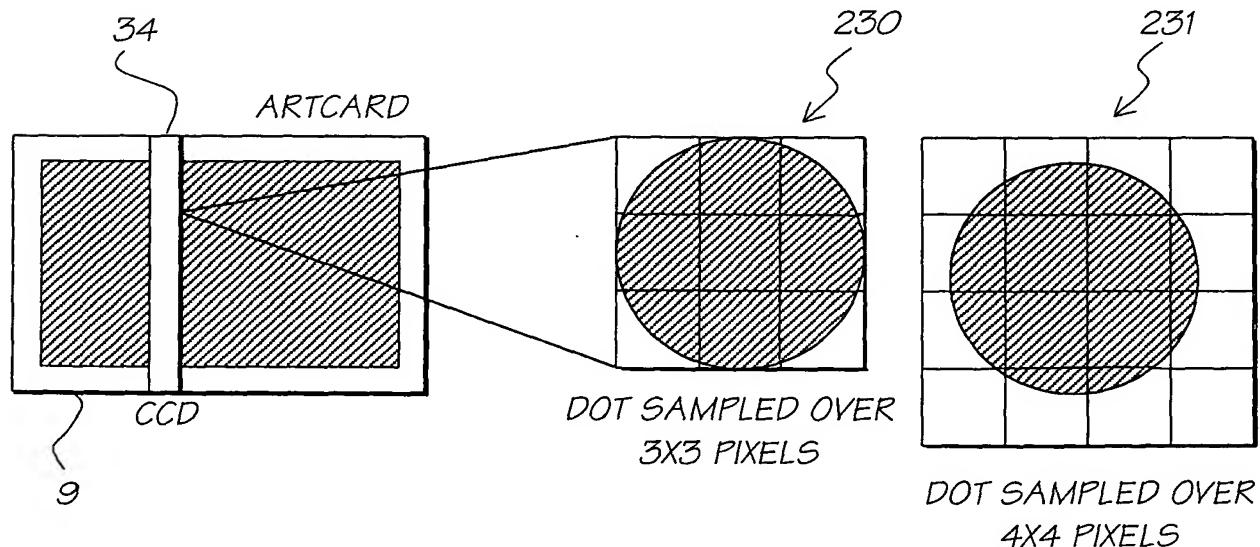


FIG. 35

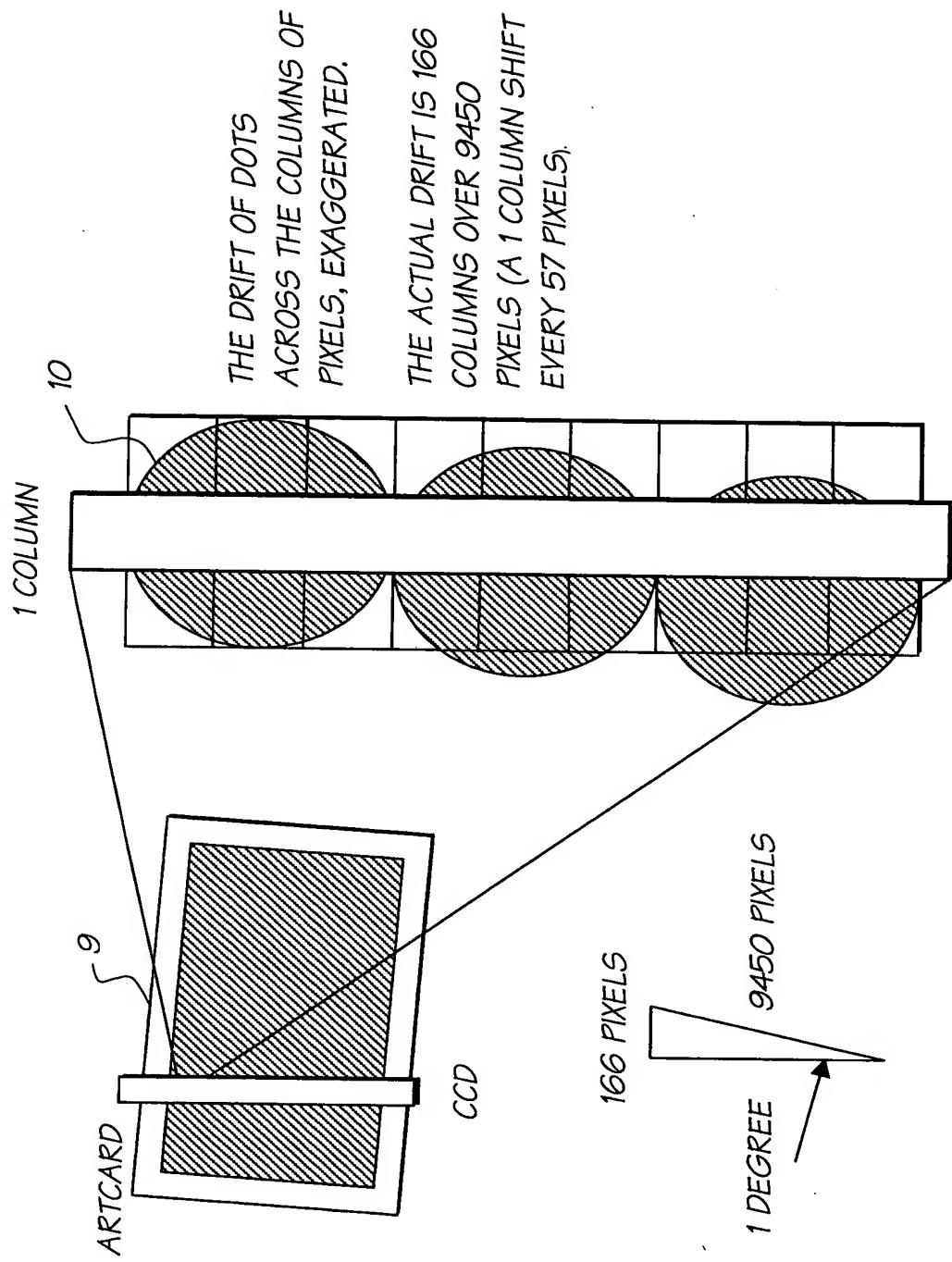
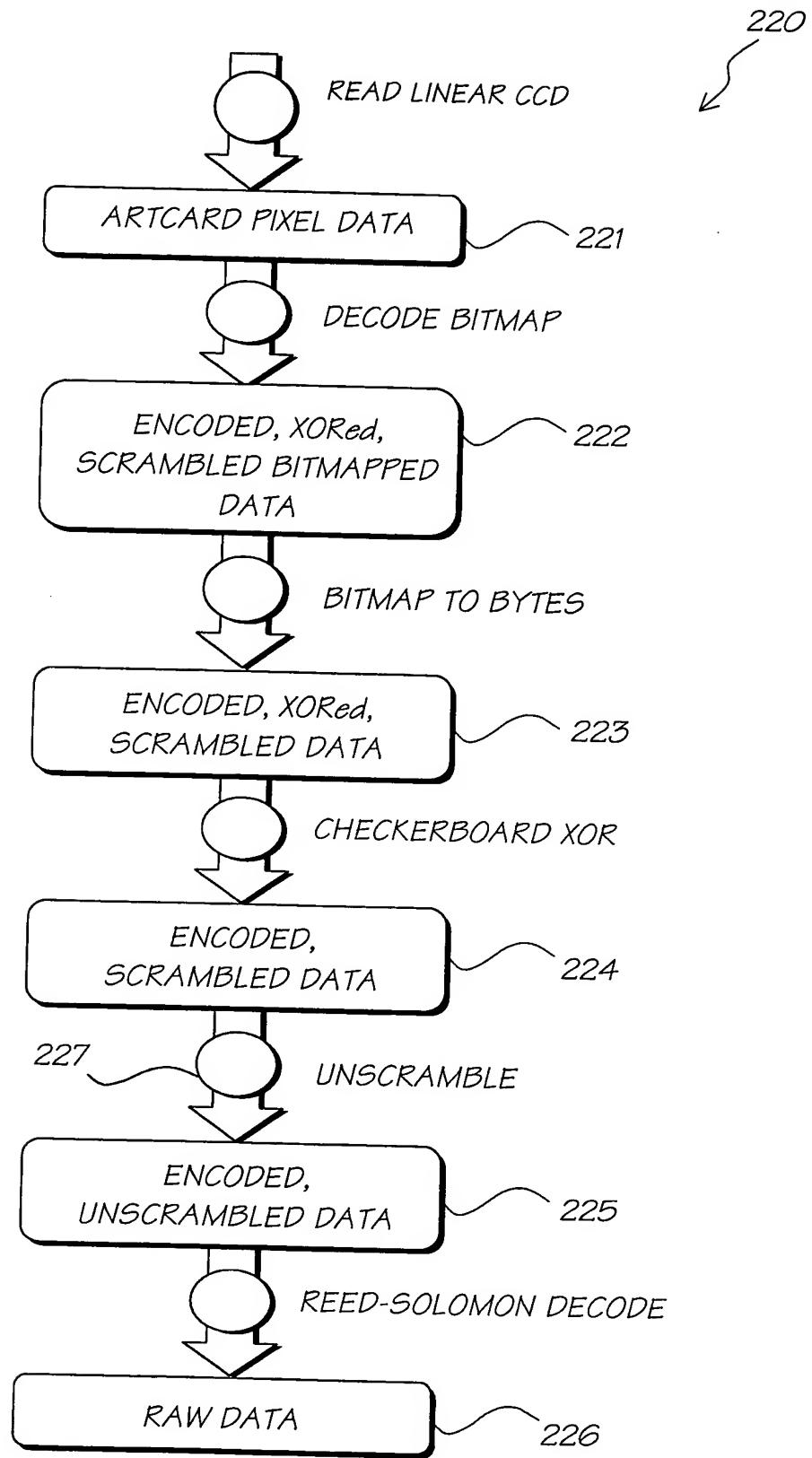


FIG. 36



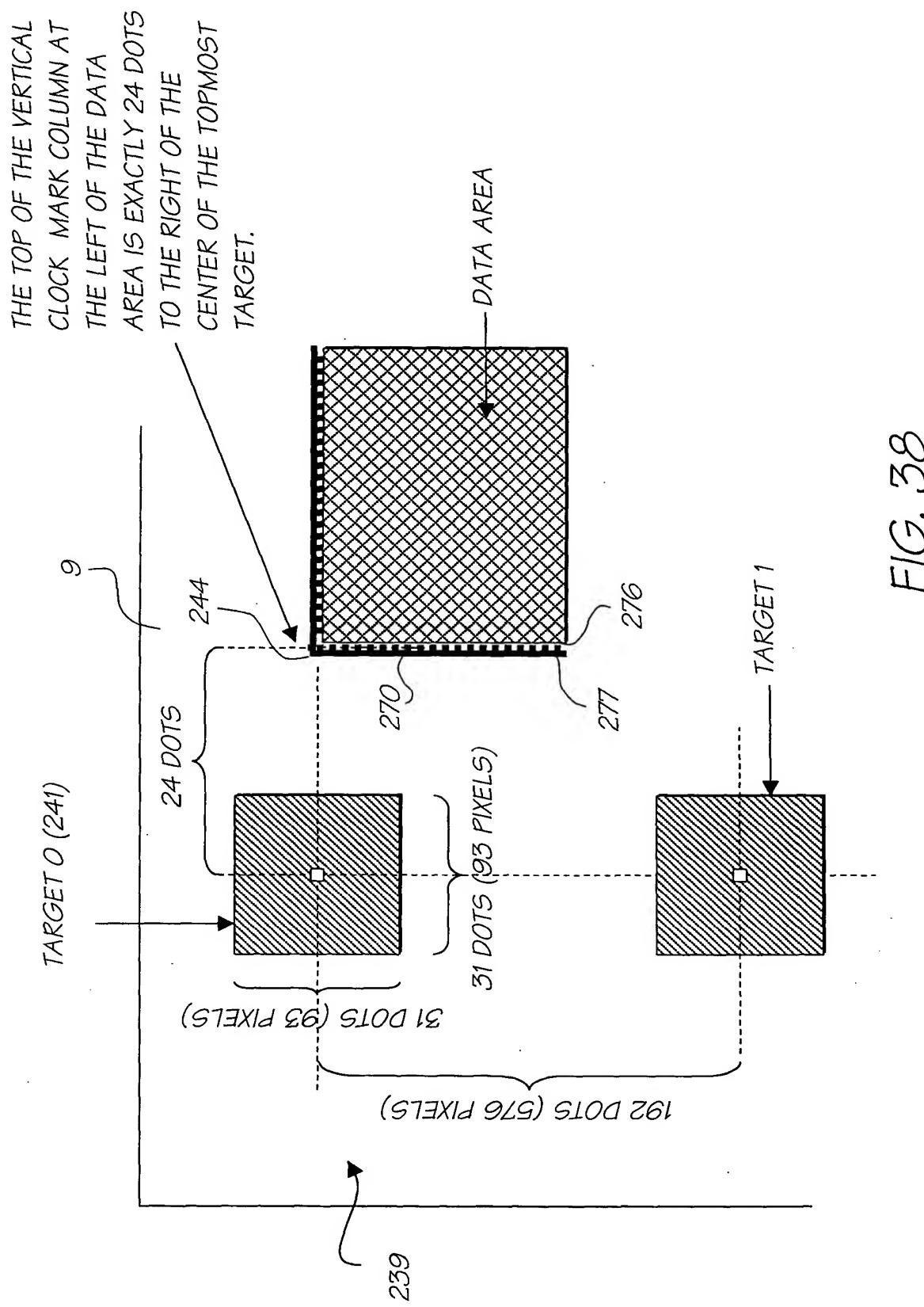


FIG. 38

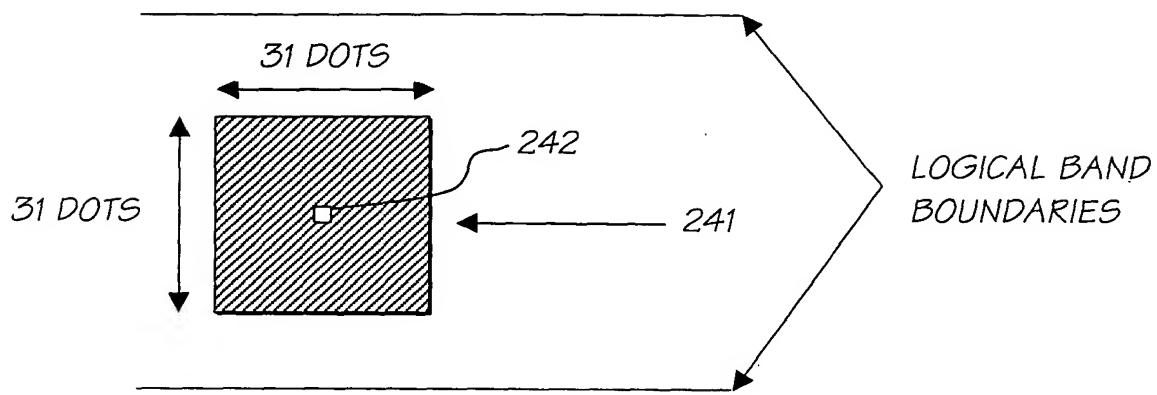


FIG. 39

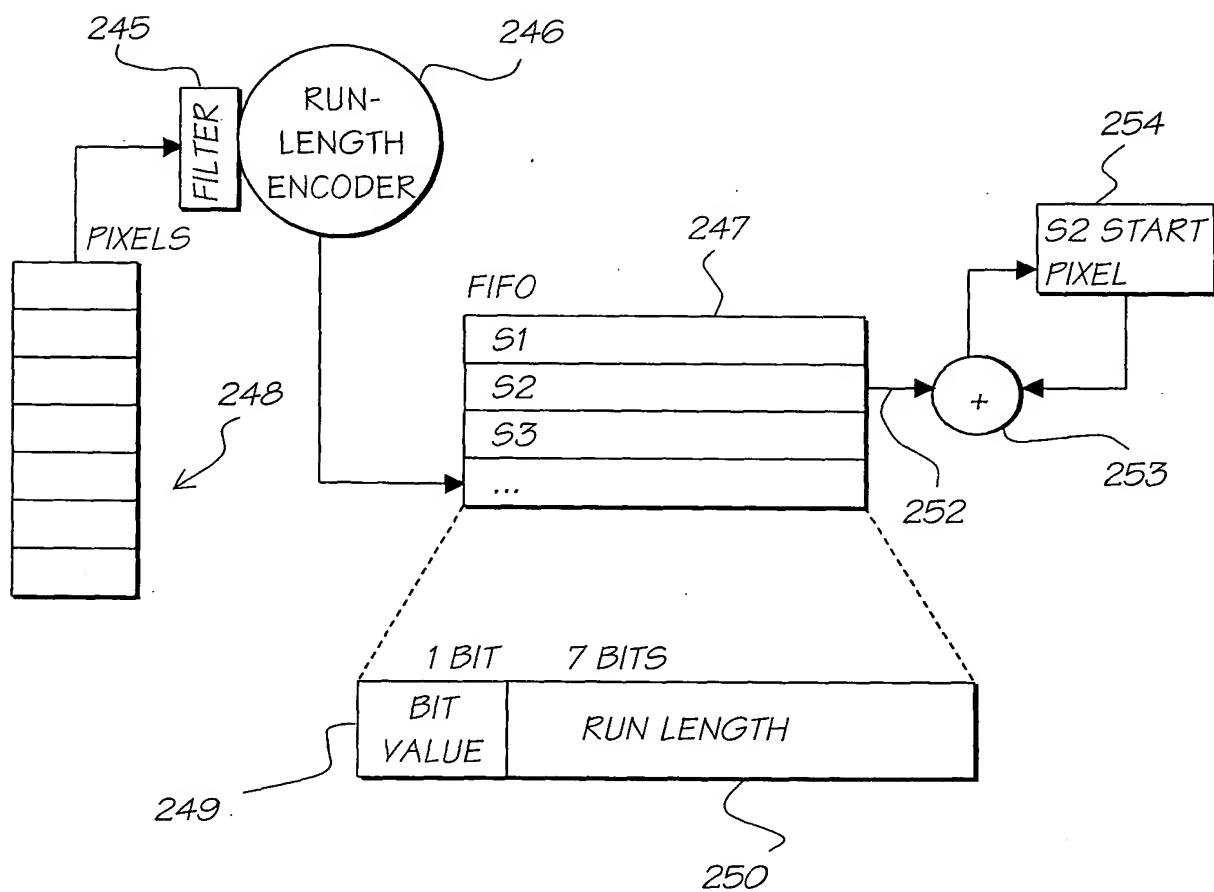


FIG. 40

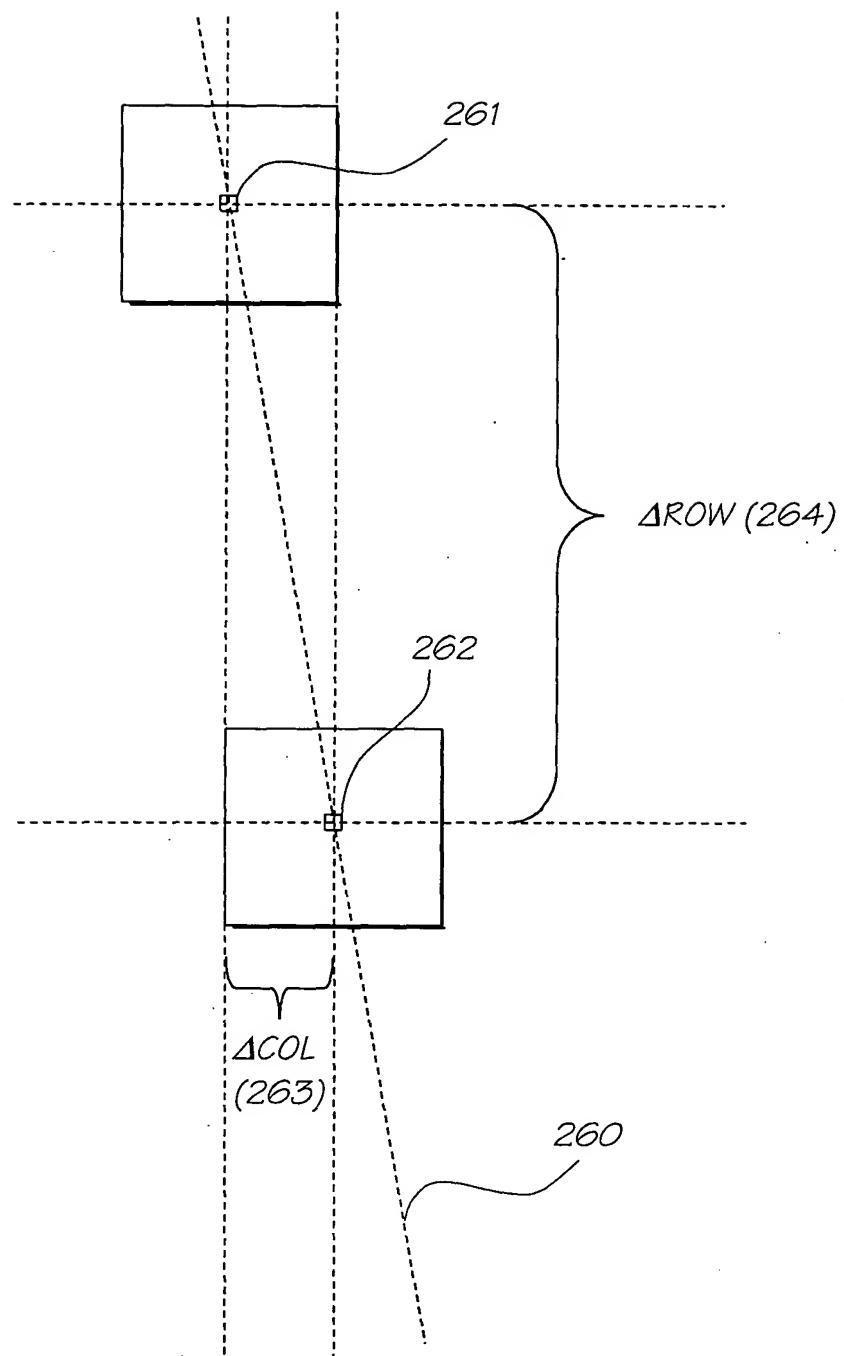
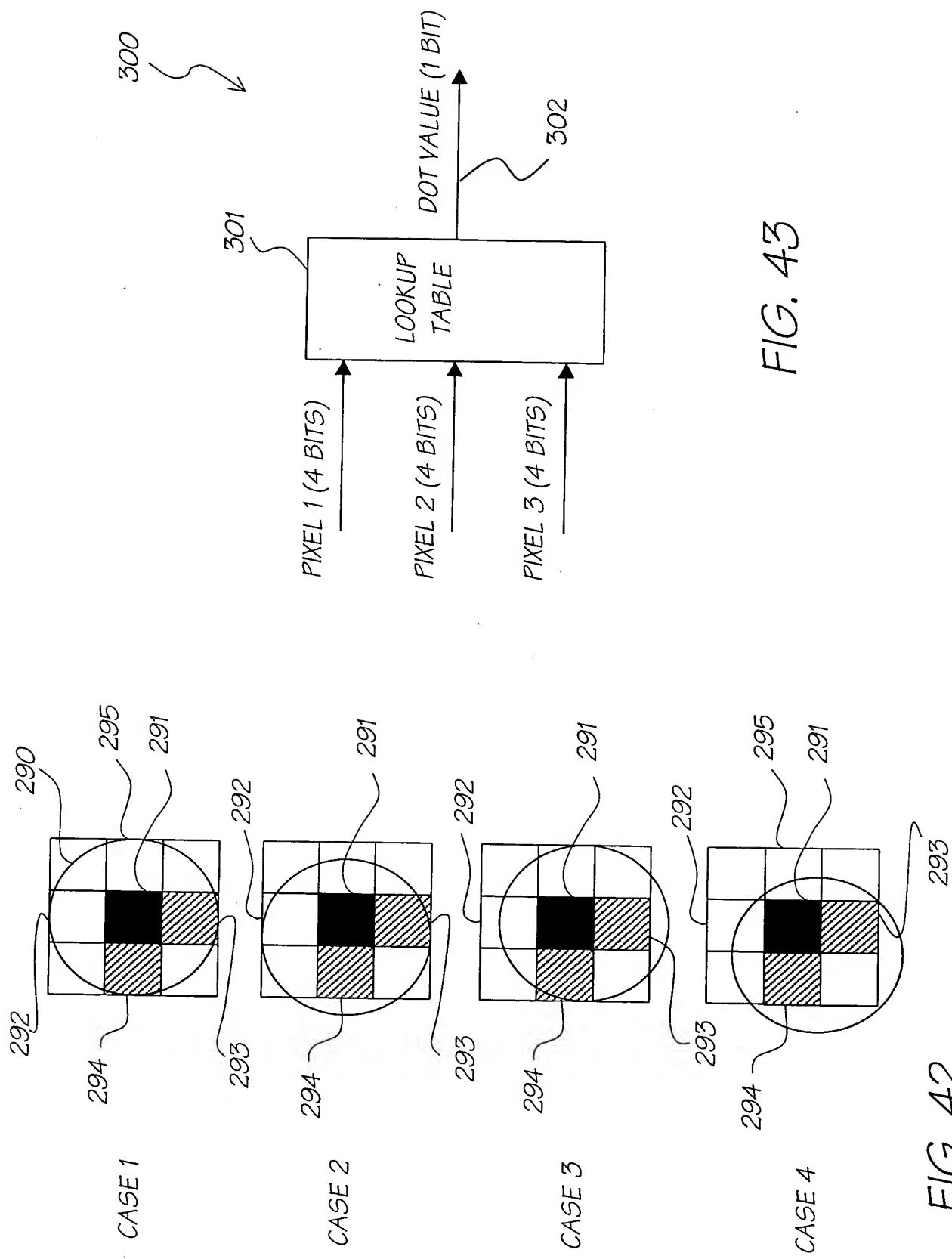


FIG. 41



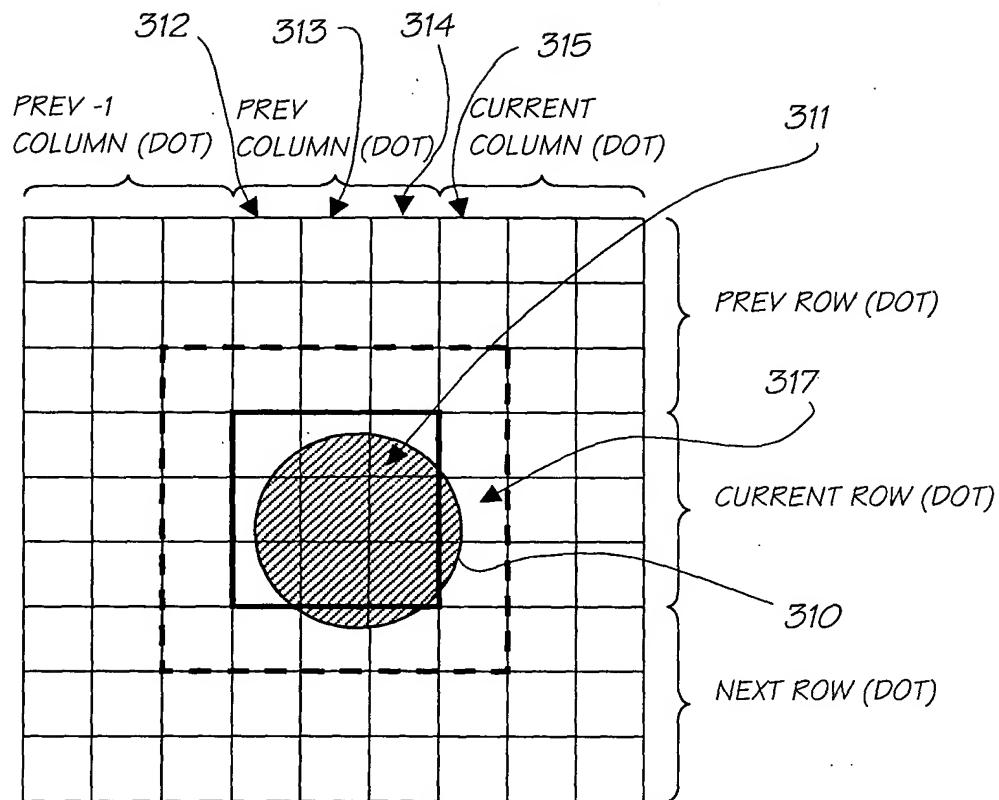


FIG. 44

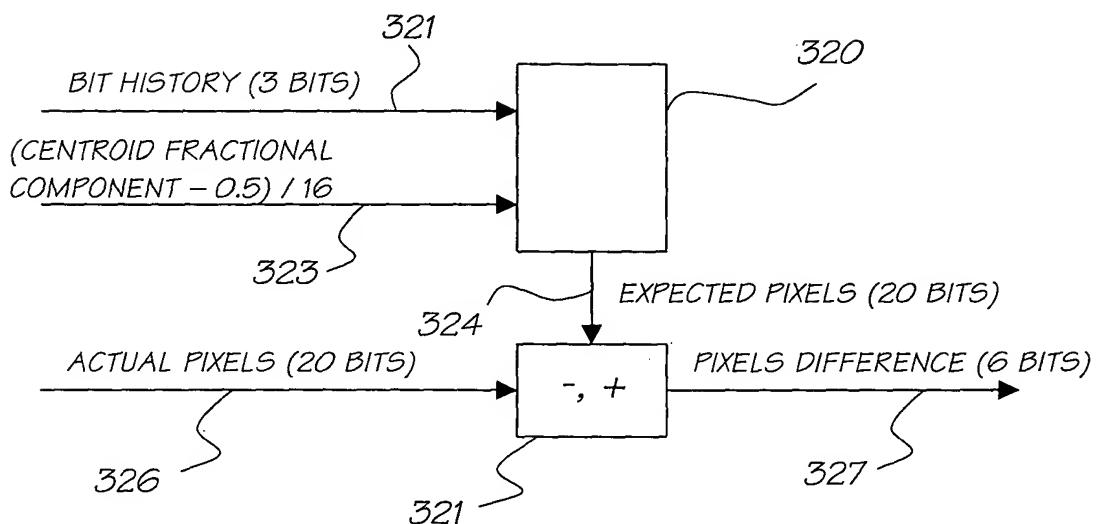


FIG. 45

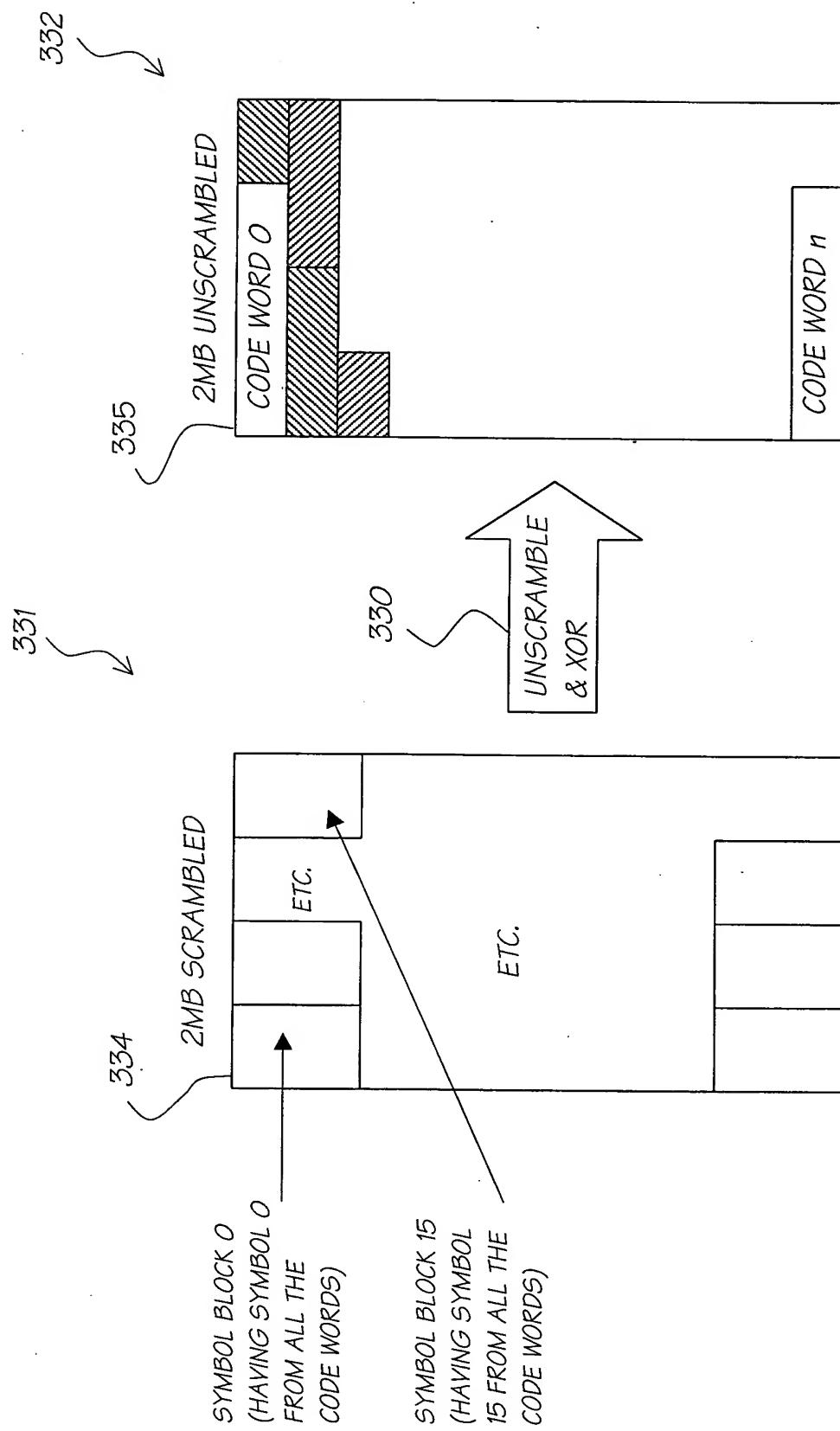
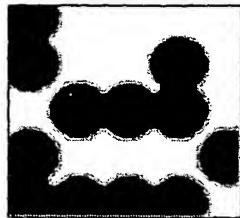
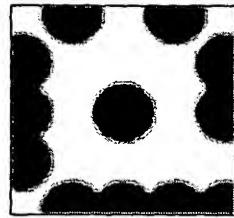


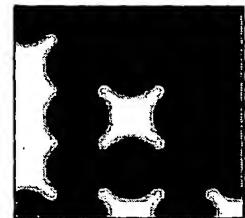
FIG. 46



BLACK AND WHITE DOTS



BLACK DOT SURROUNDED BY WHITE



WHITE DOT SURROUNDED BY BLACK

FIG. 47

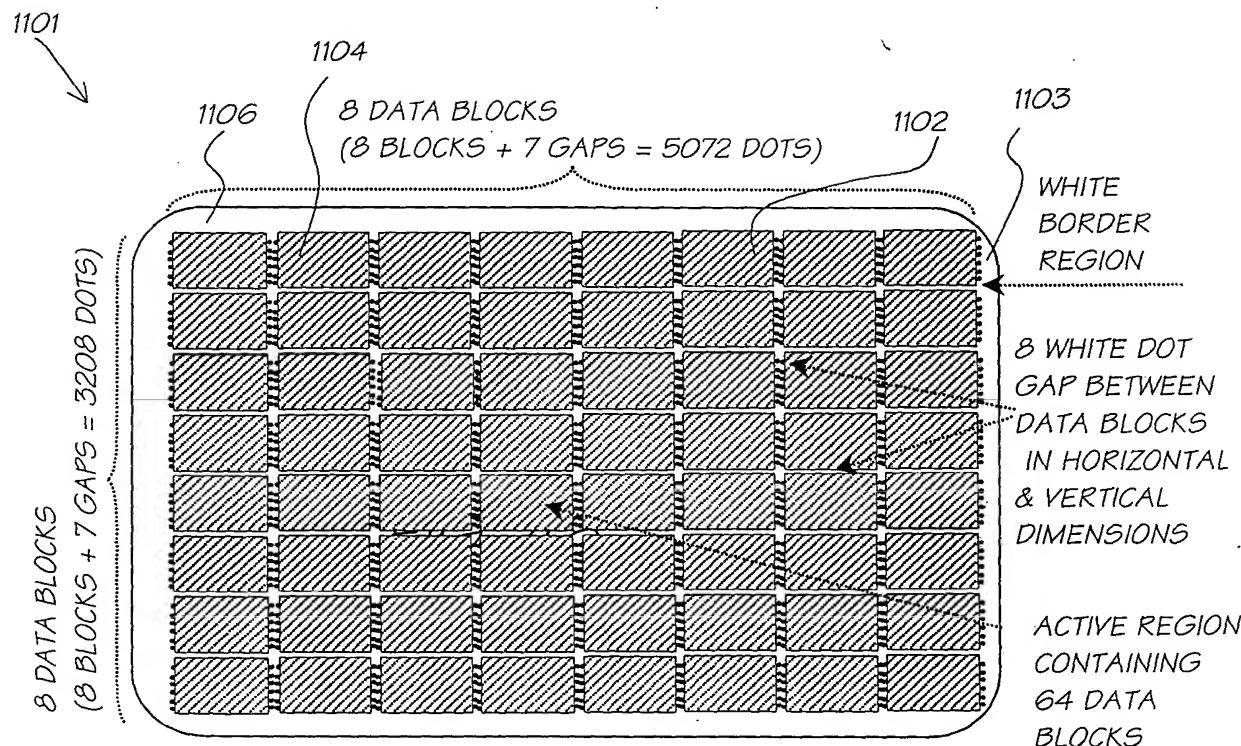


FIG. 48

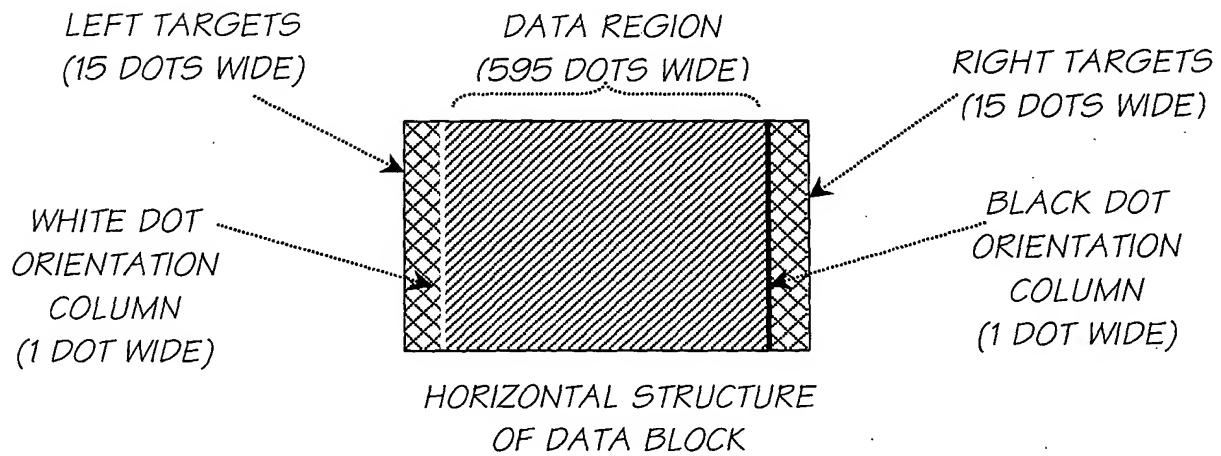
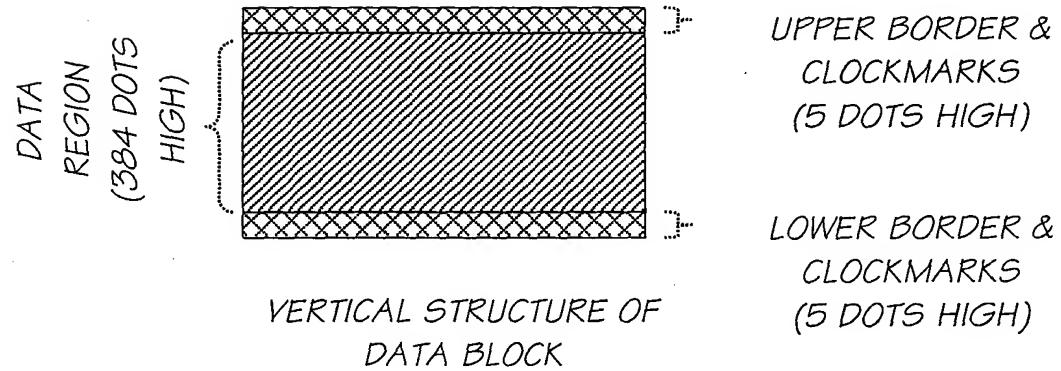
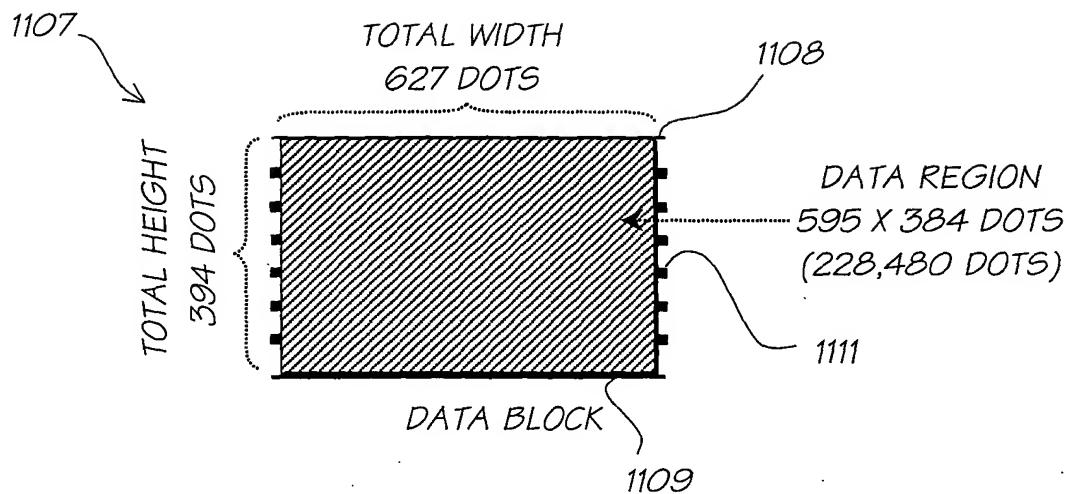


FIG. 49

FIG. 51

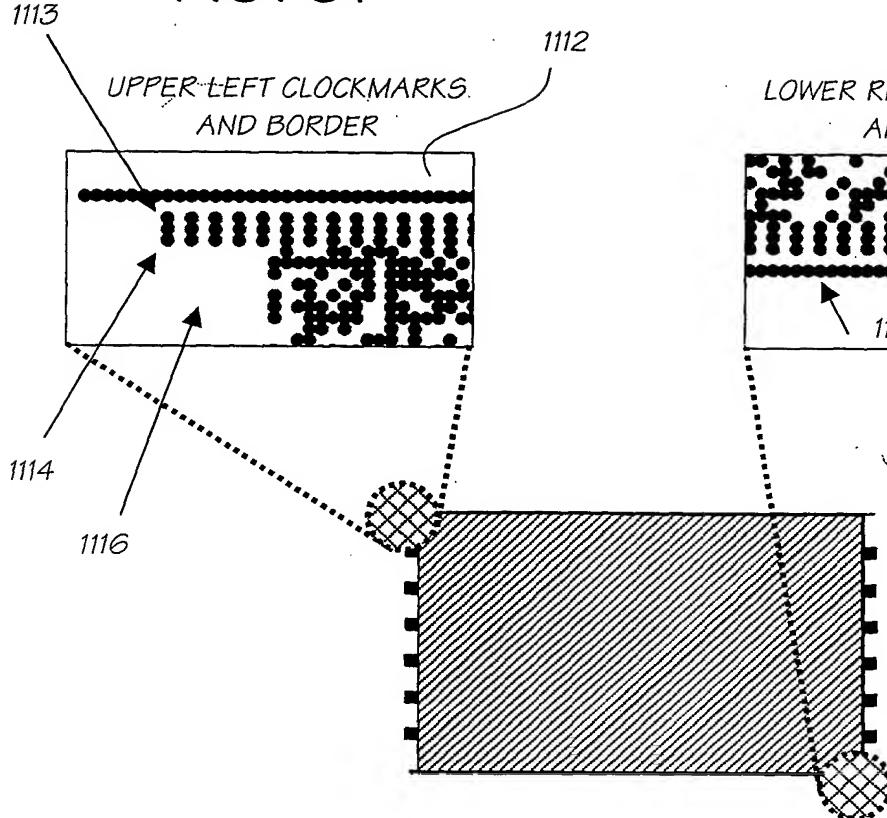


FIG. 52

LOWER RIGHT CLOCKMARKS  
AND BORDER

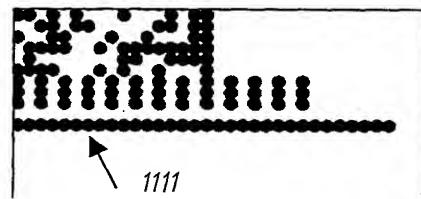


FIG. 50

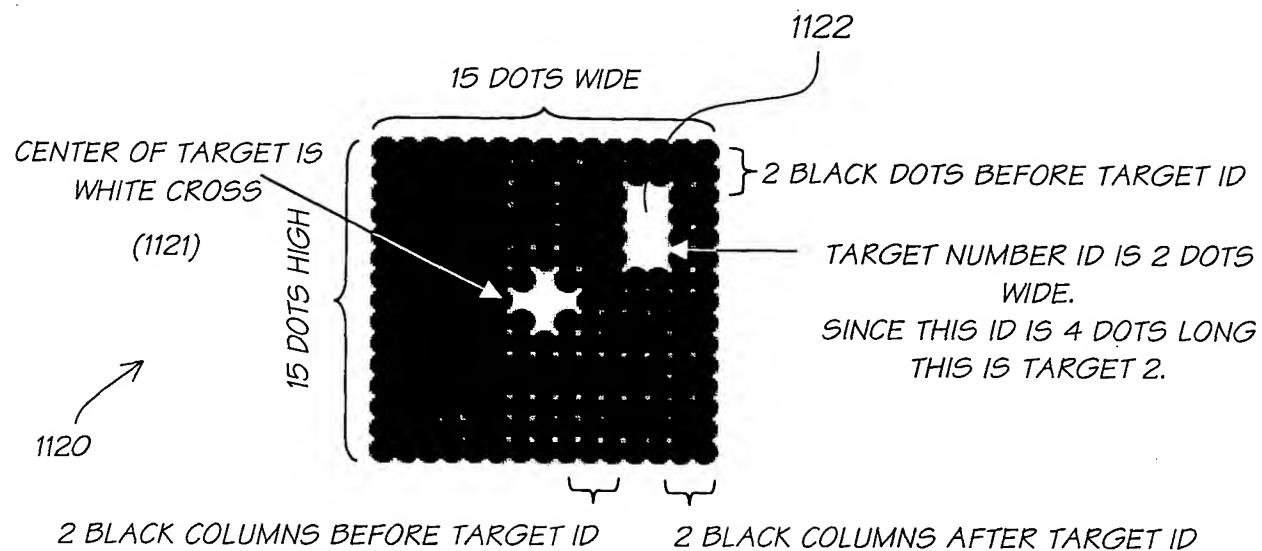


FIG. 53

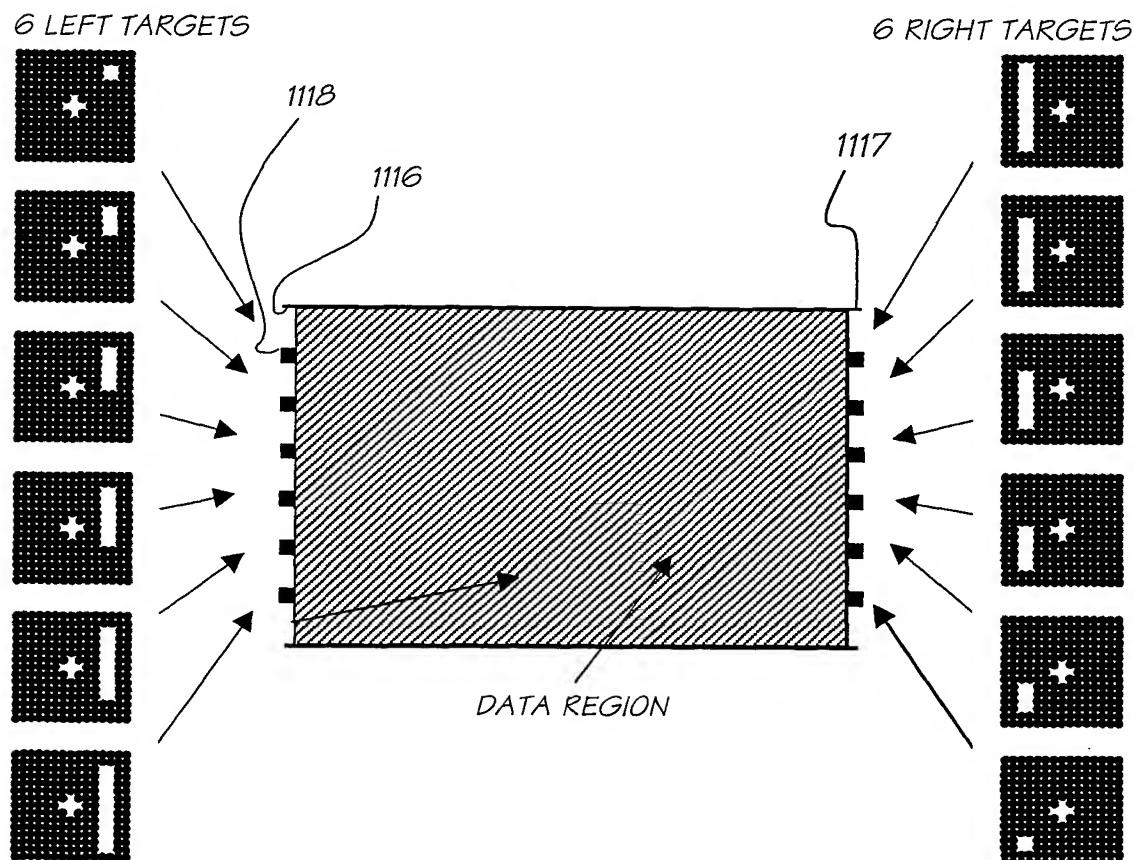


FIG. 54

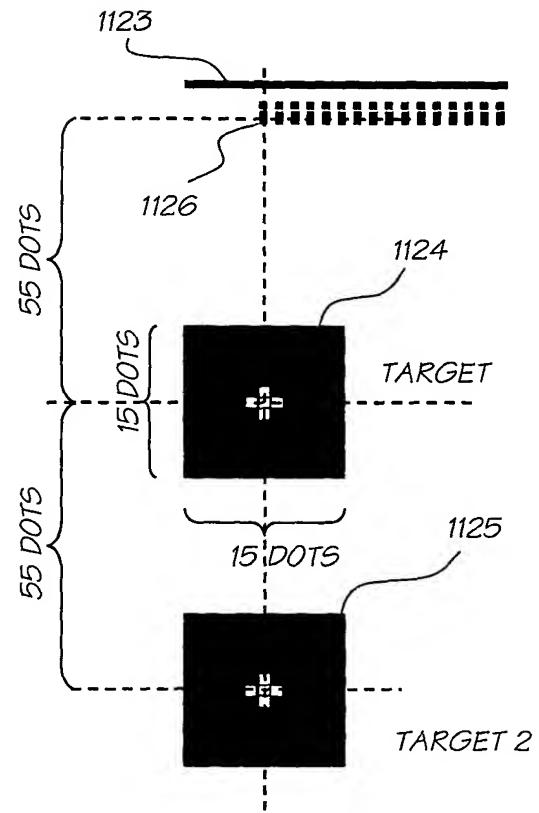


FIG. 55

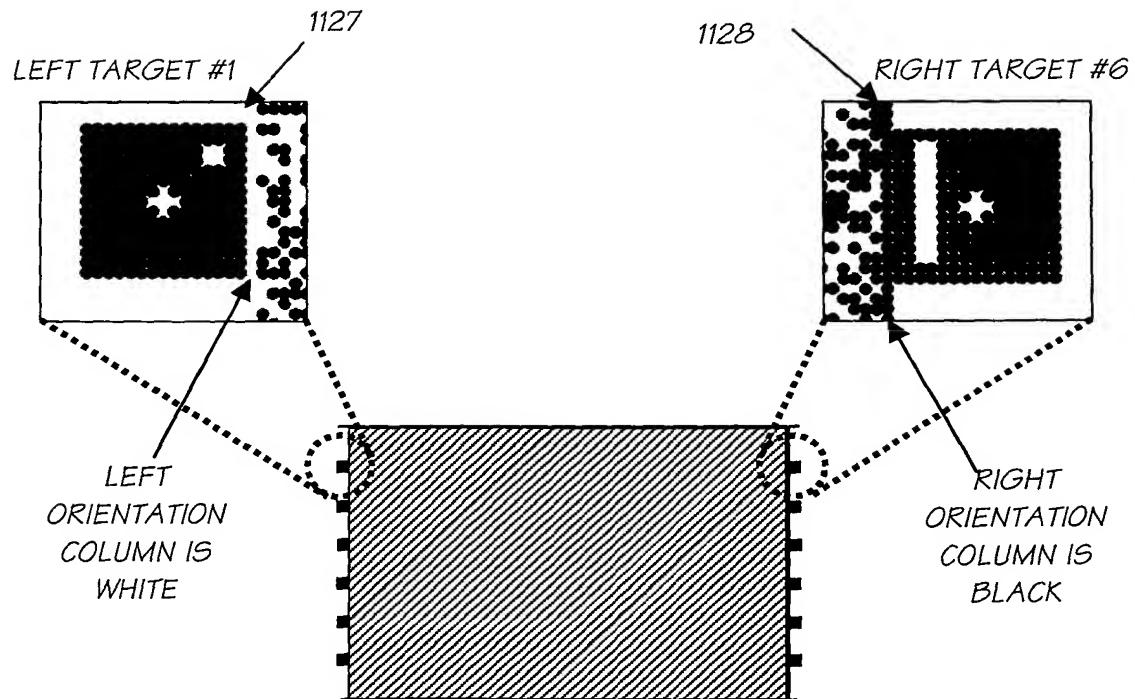


FIG. 56

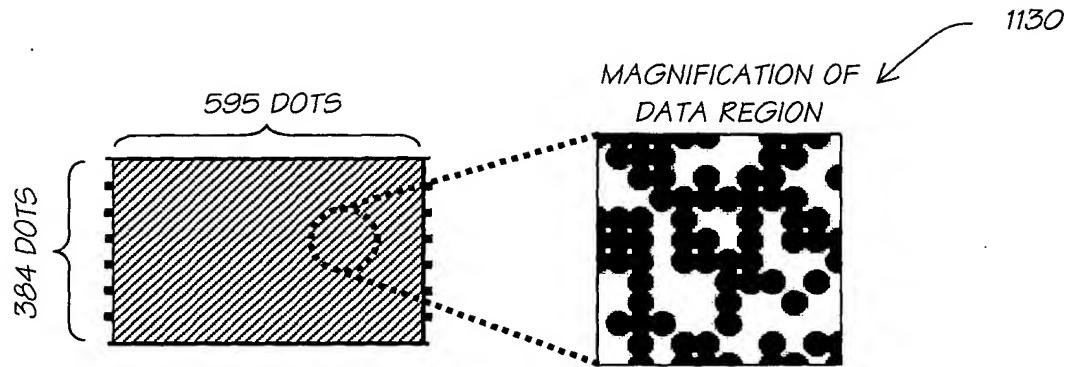


FIG. 57

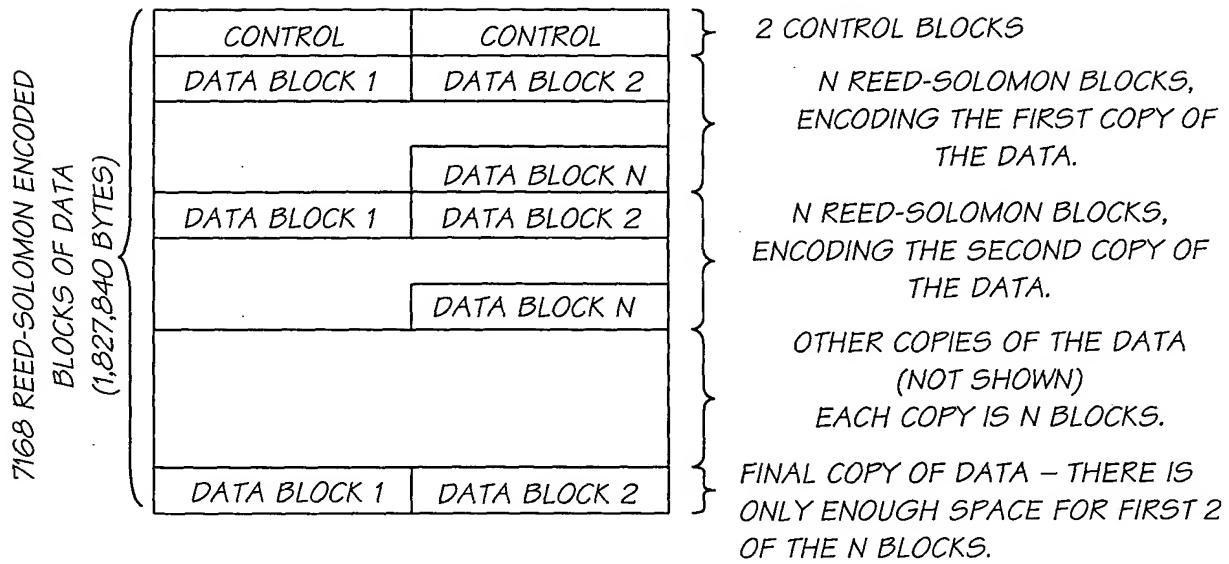


FIG. 58

00: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D	}	32 COPIES OF THE 3 BYTE CONTROL INFORMATION
0C: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
18: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
24: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
30: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
3C: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
48: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
54: 4F 00 3D 4F 00 3D 4F 00 3D 4F 00 3D		
60: 00 00 00 00 00 00 00 00 00 00 00 00		
6C: 00 00 00 00 00 00 00 00 00 00 00 00		
78: 00 00 00 00 00 00 00 00 00 00 00 00		RESERVED BYTES ARE 0

FIG. 59

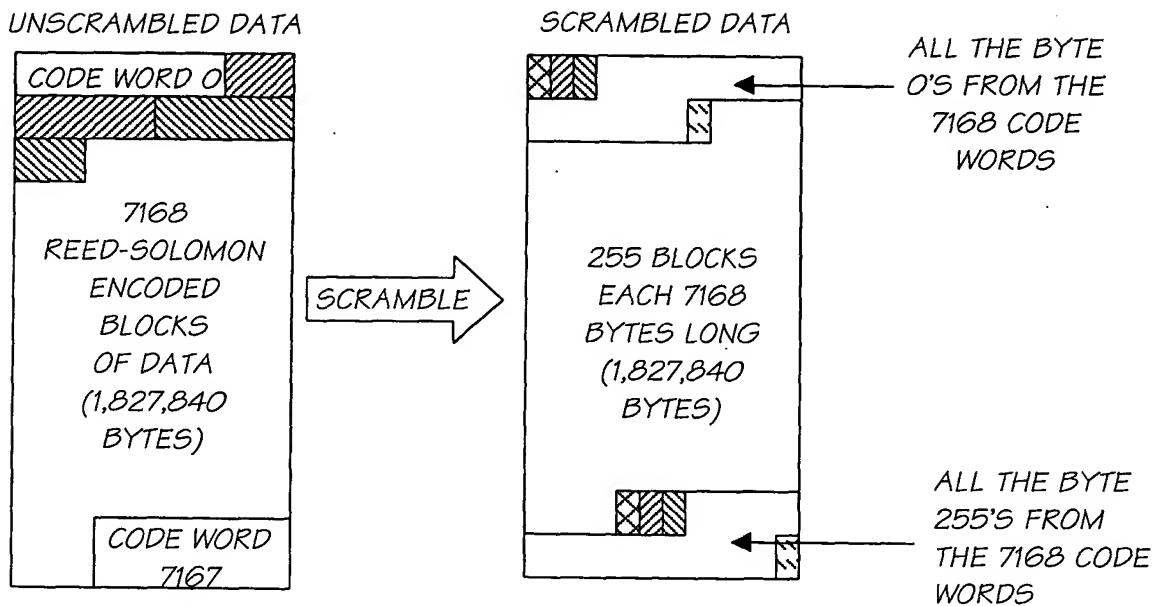


FIG. 60

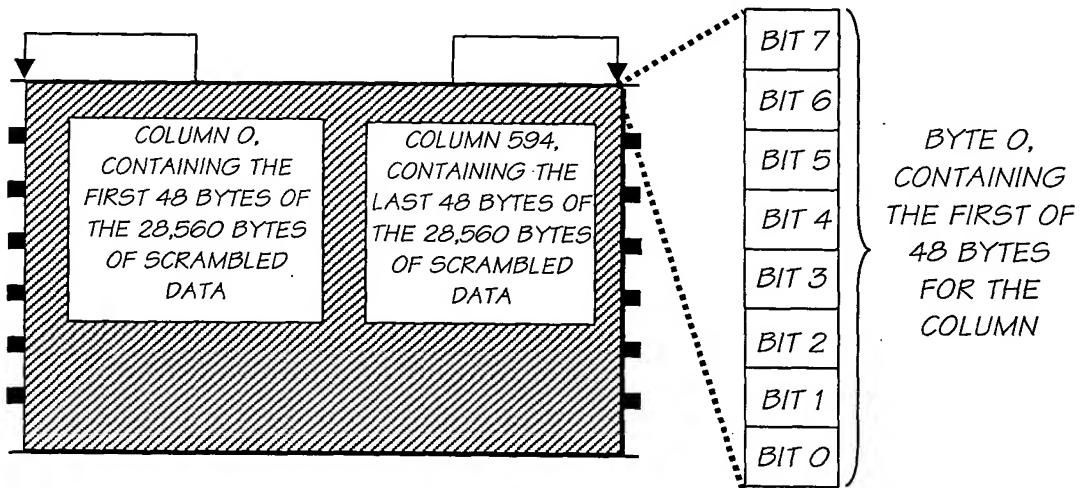


FIG. 61

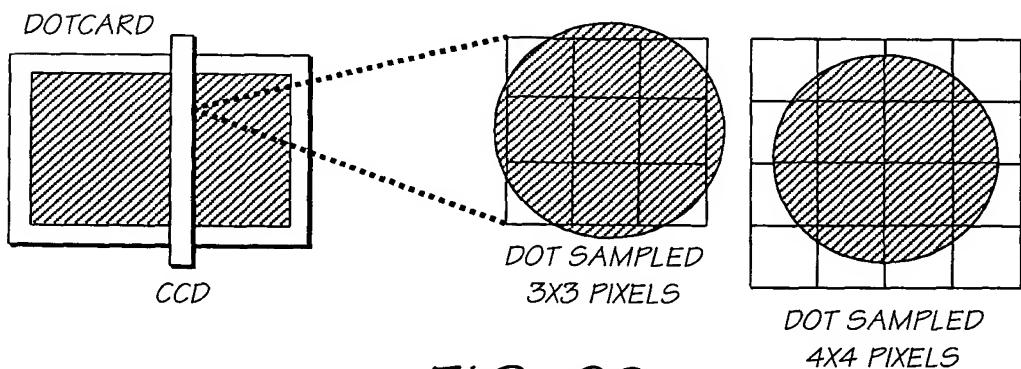


FIG. 62

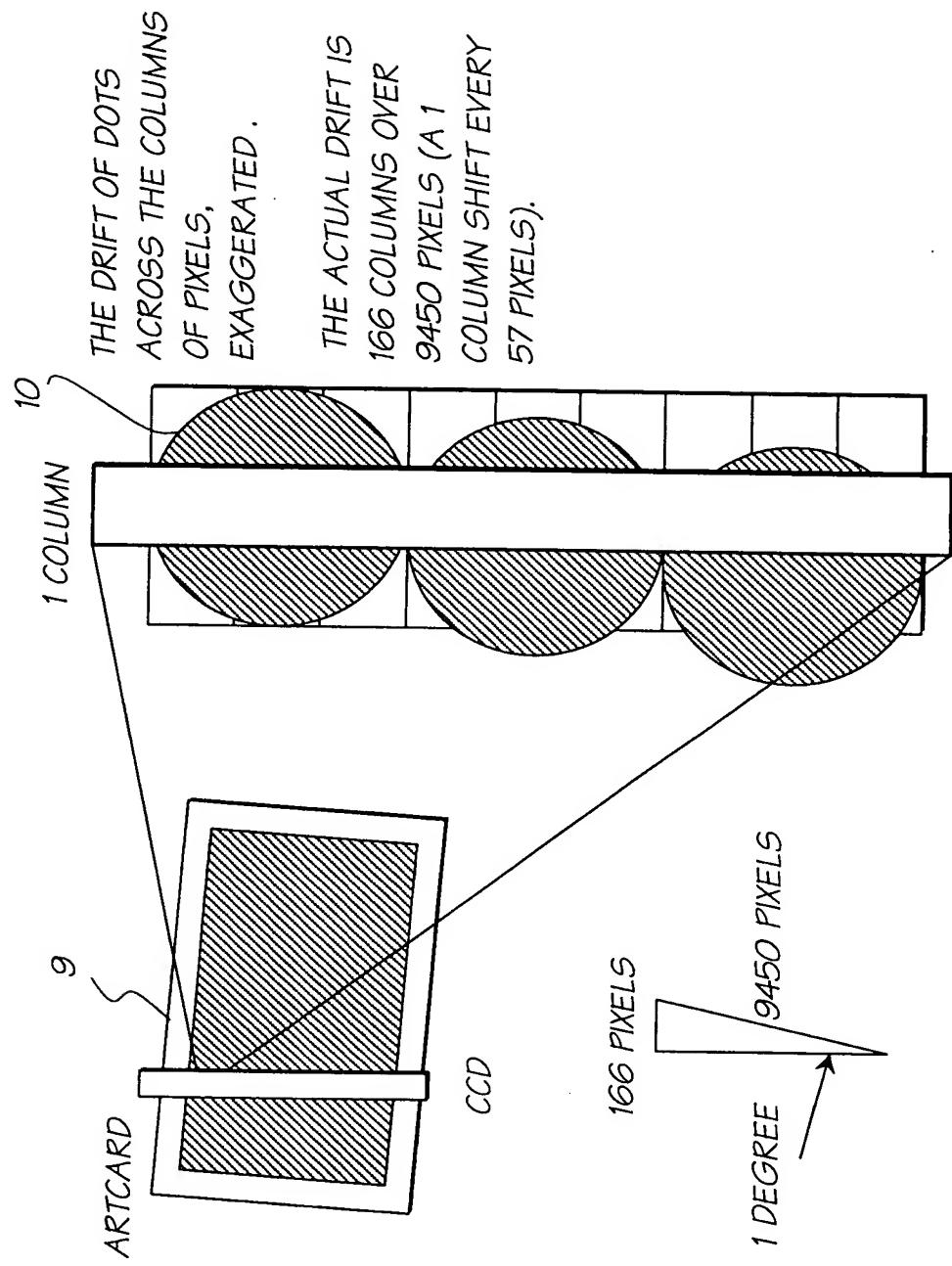
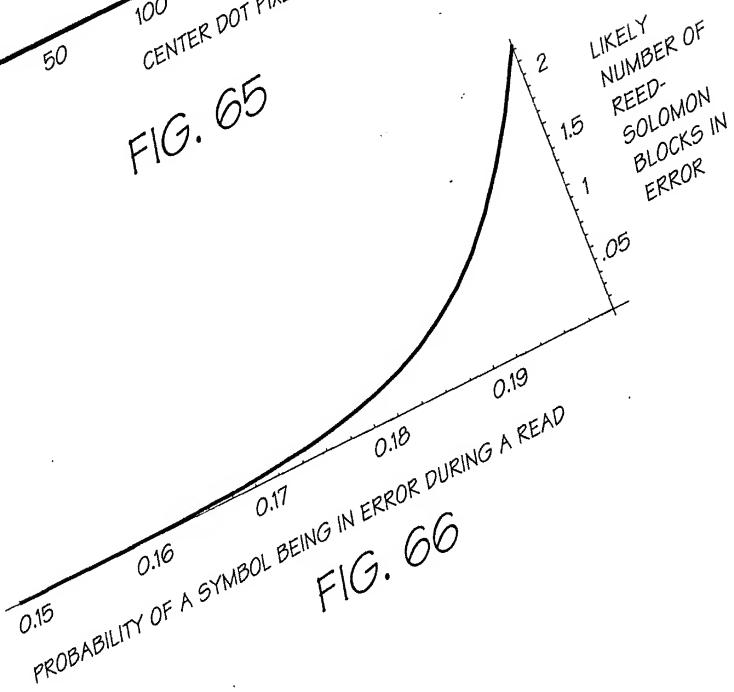
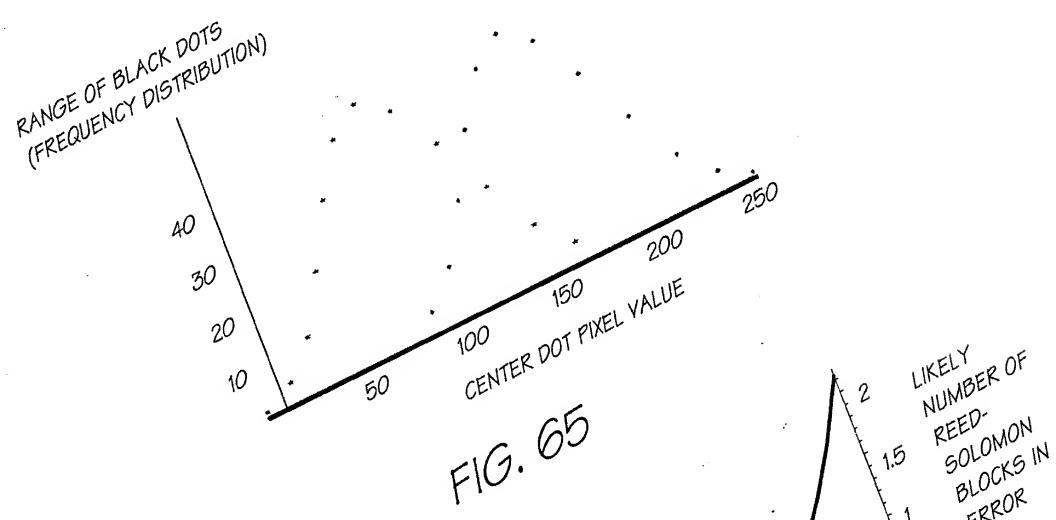
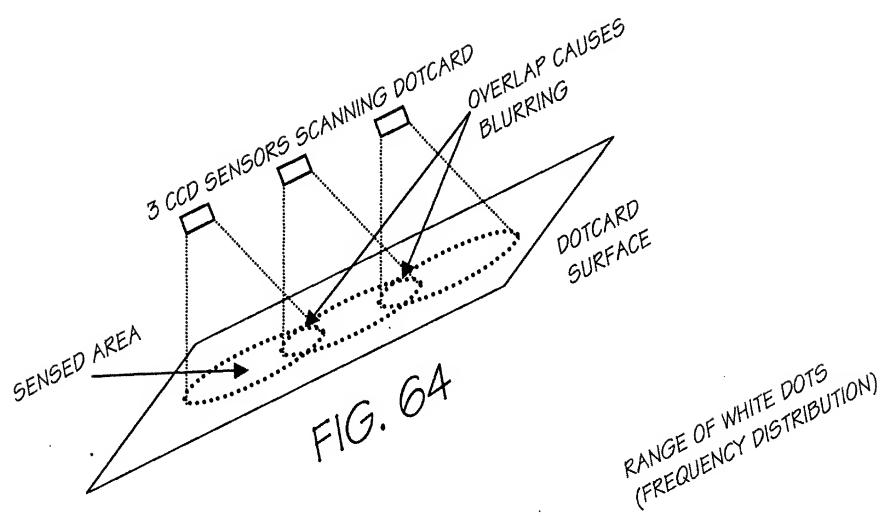


FIG. 63



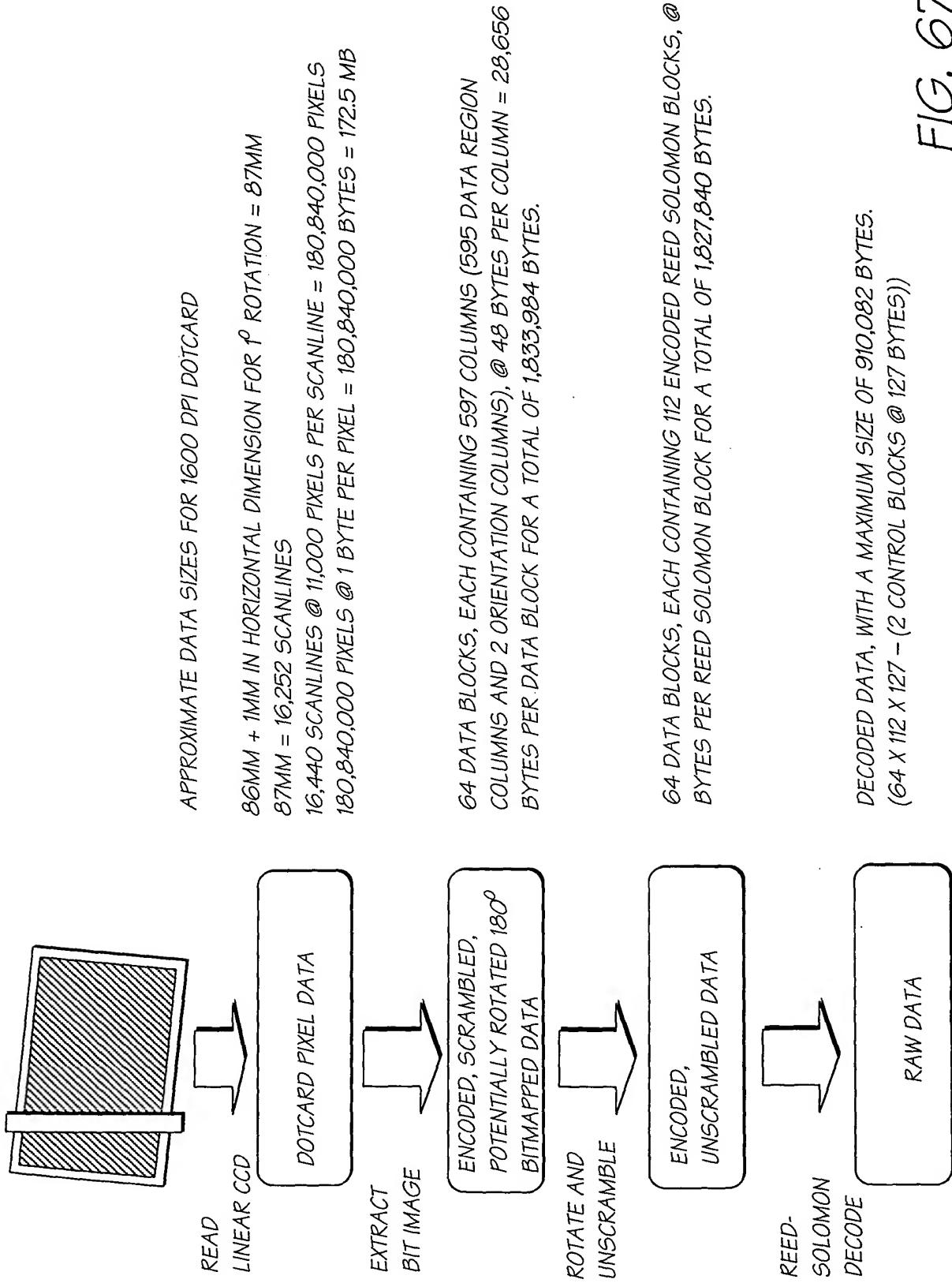


FIG. 67

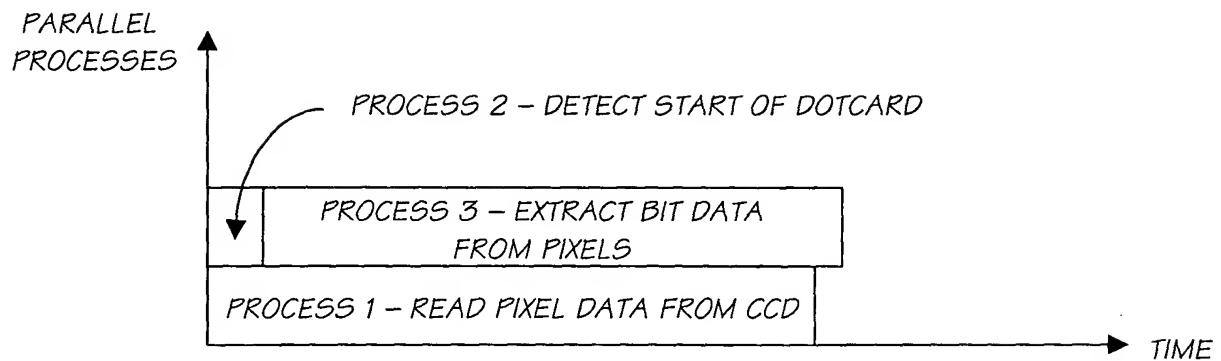


FIG. 68

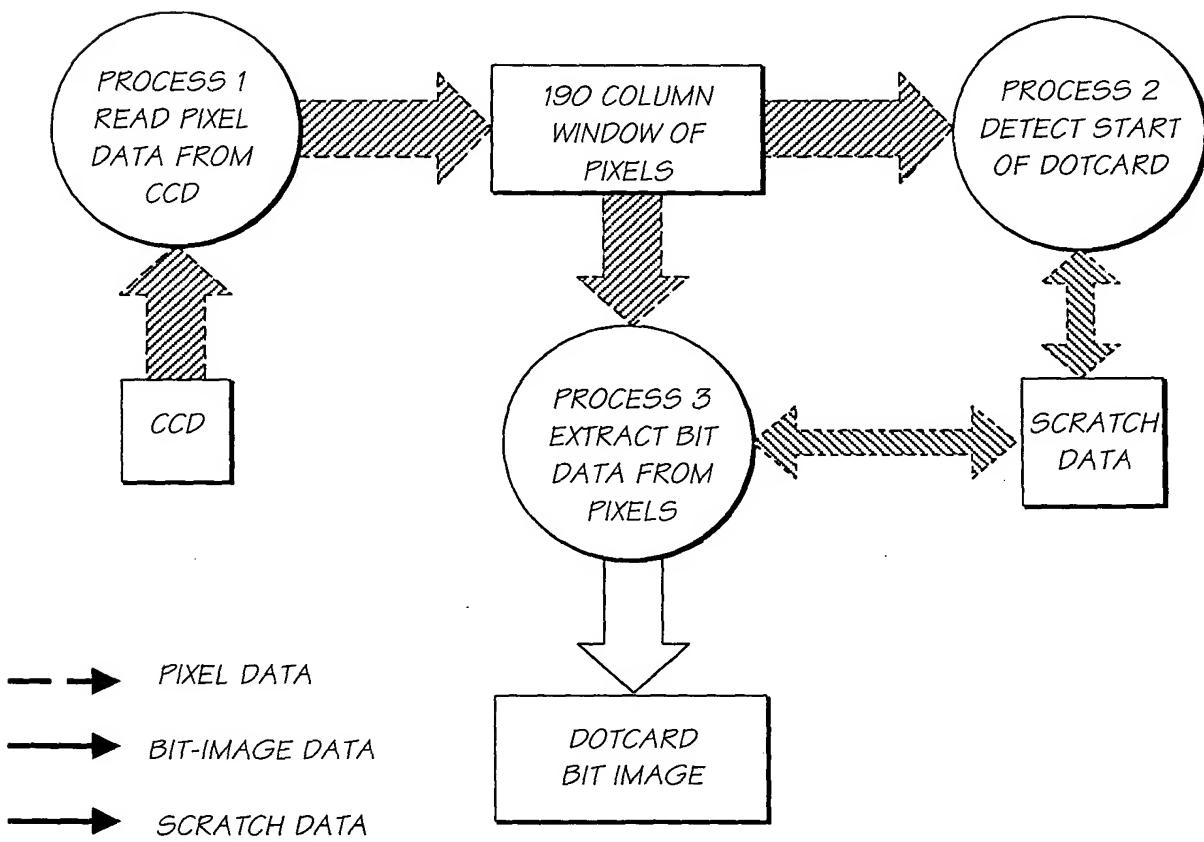


FIG. 69

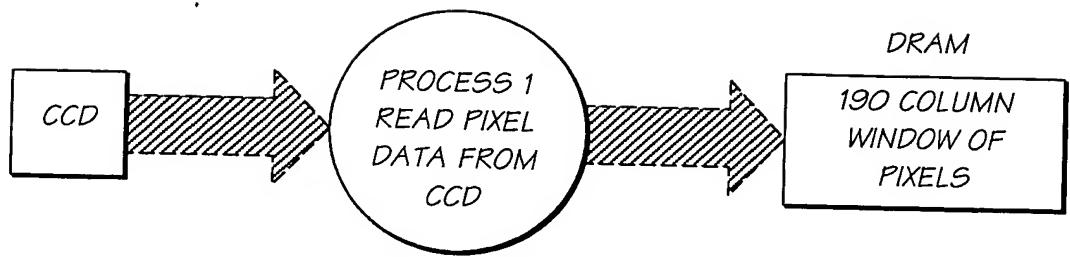


FIG. 70

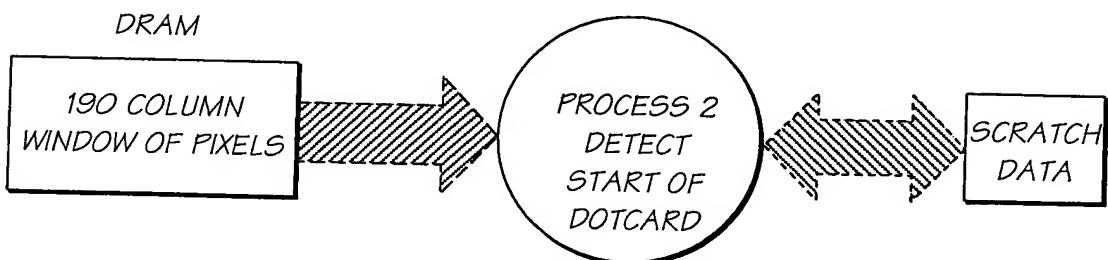


FIG. 71

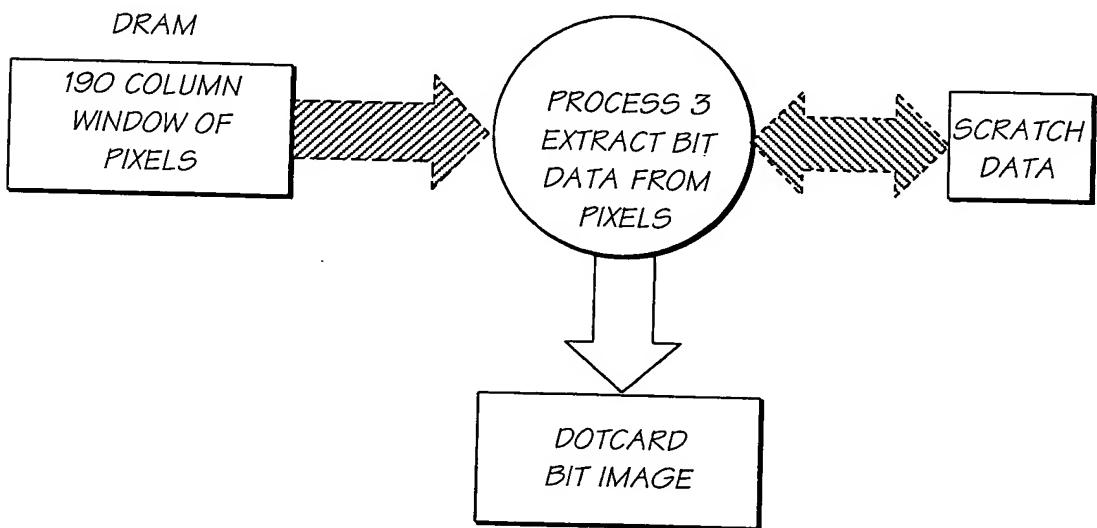


FIG. 72

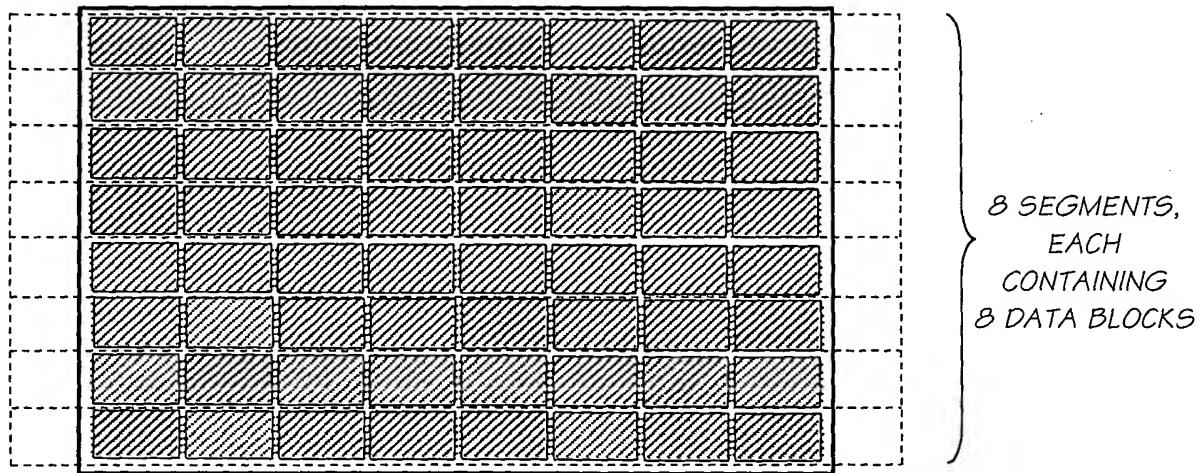


FIG. 73

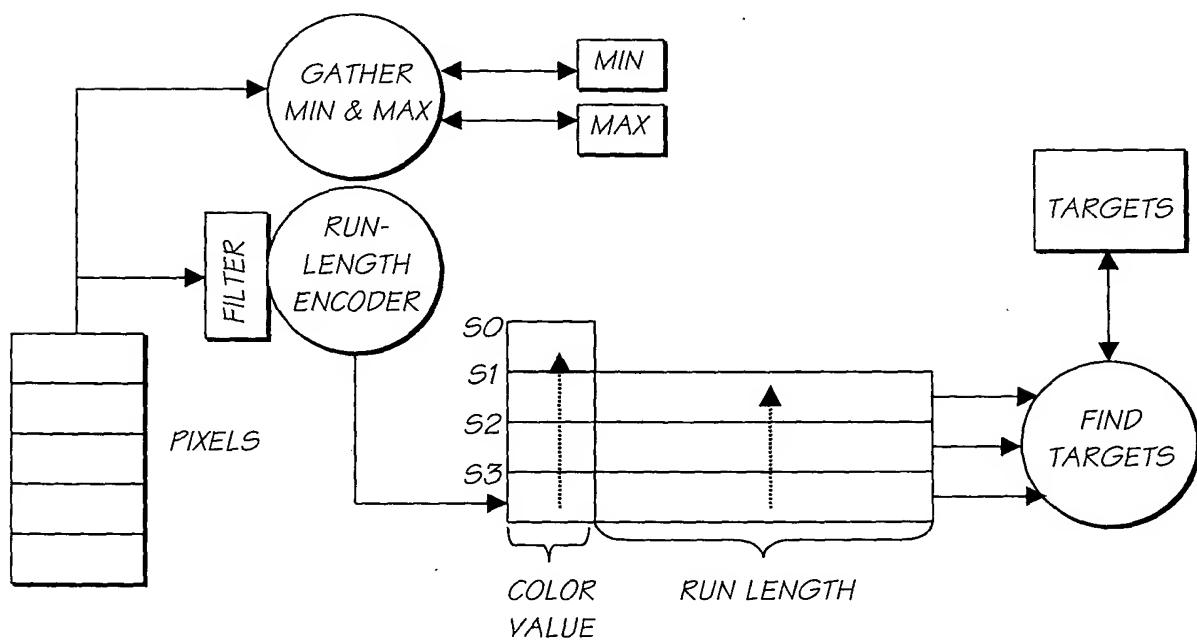


FIG. 74

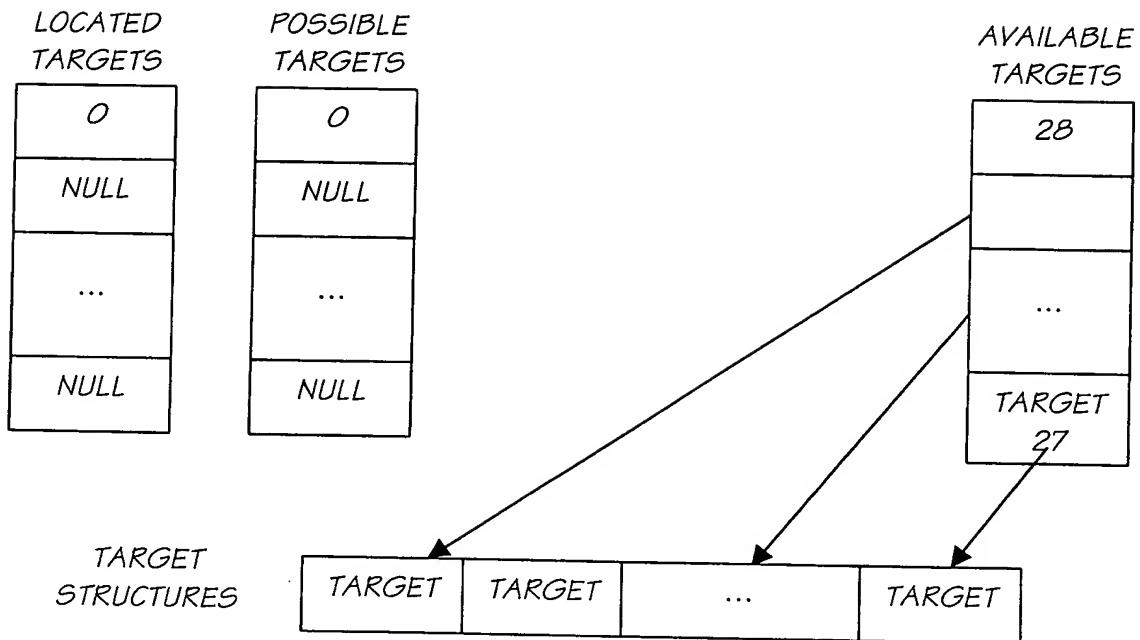


FIG. 75

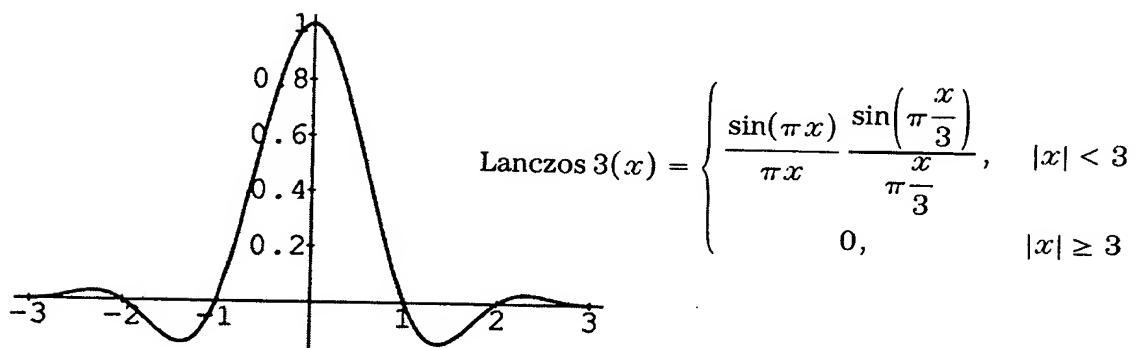


FIG. 76

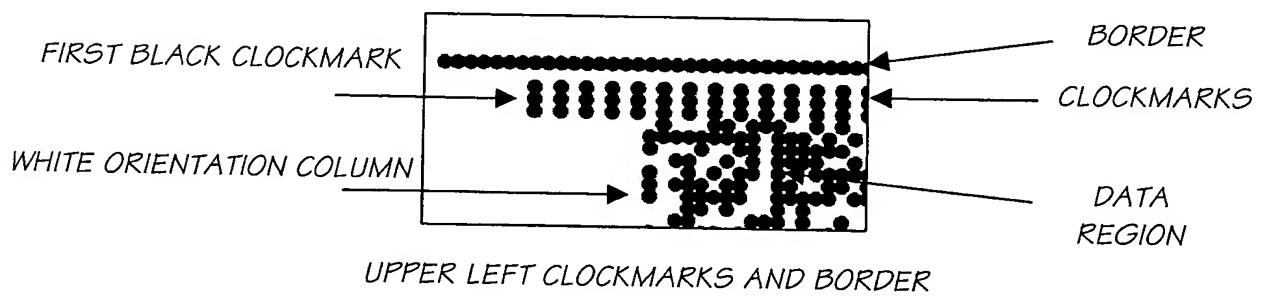


FIG. 77

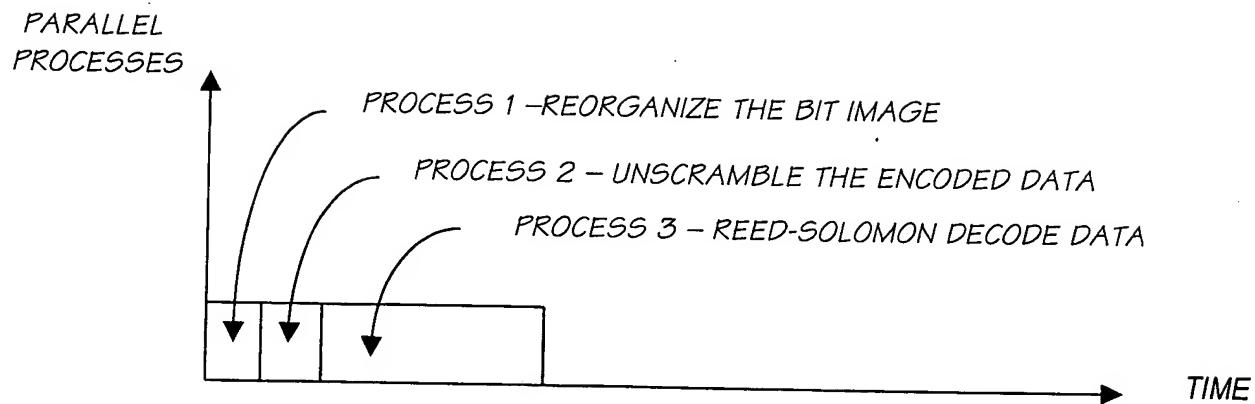


FIG. 78

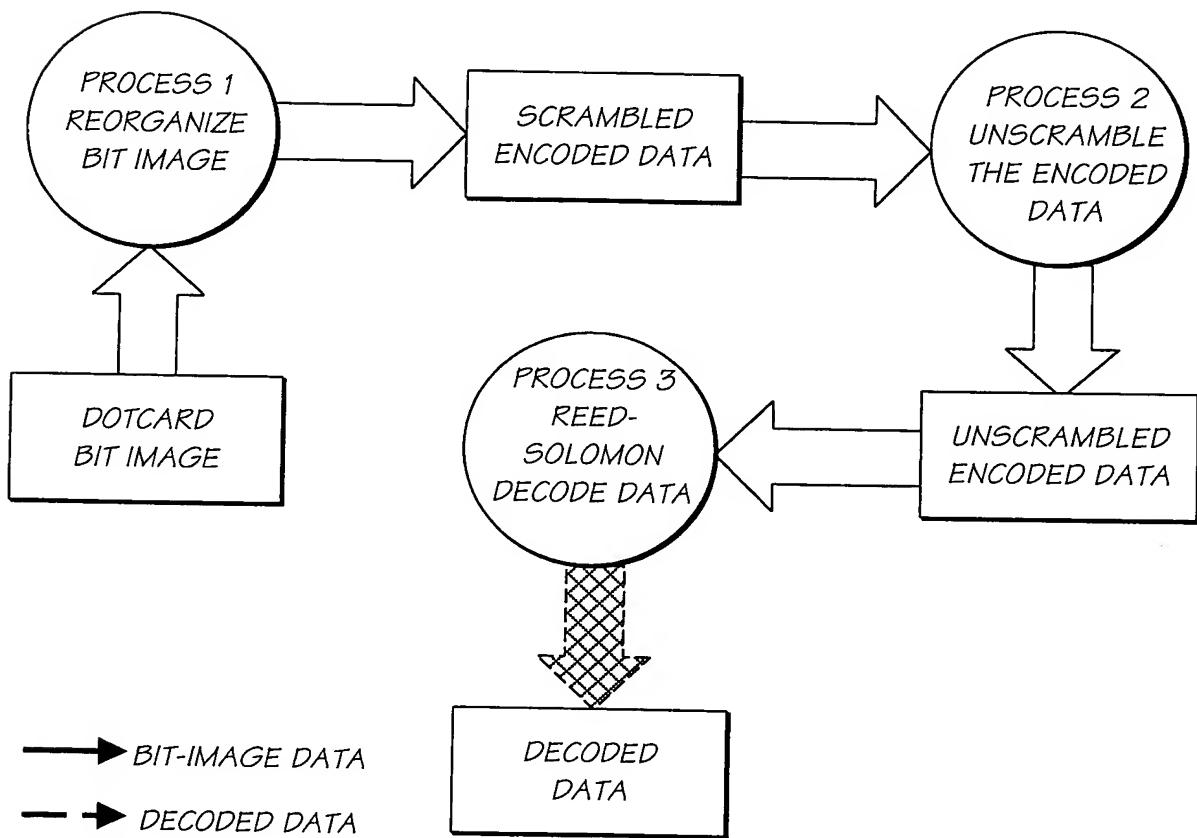


FIG. 79

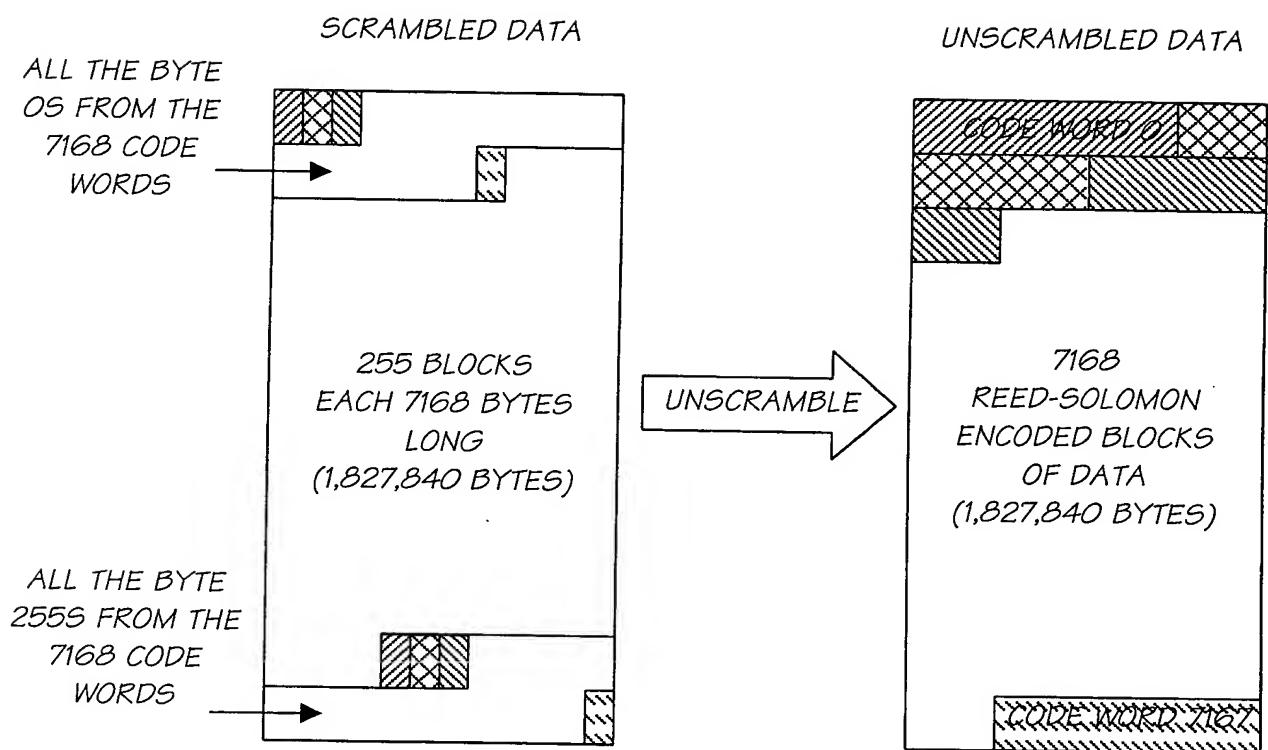


FIG. 80

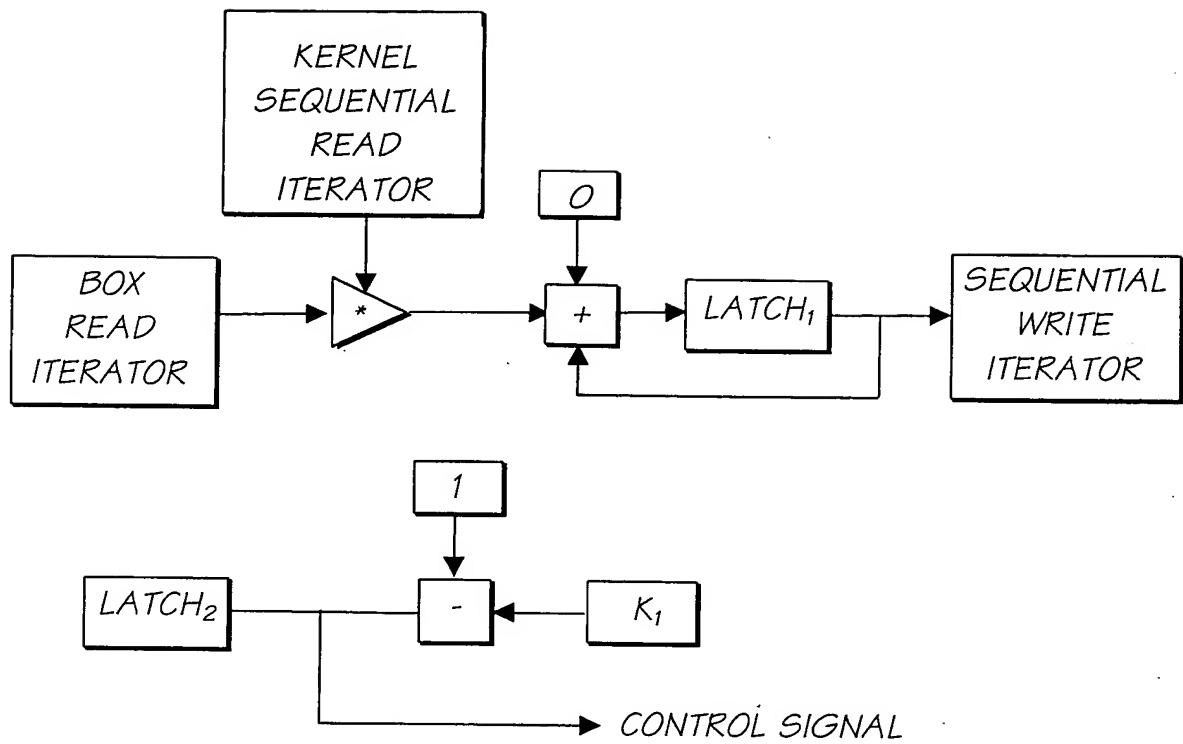


FIG. 81

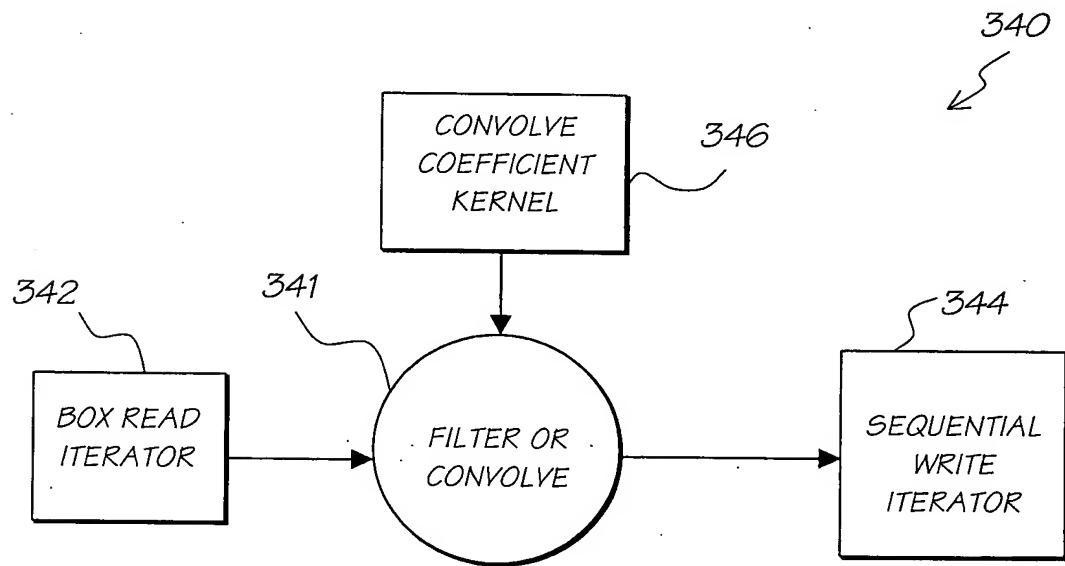


FIG. 82

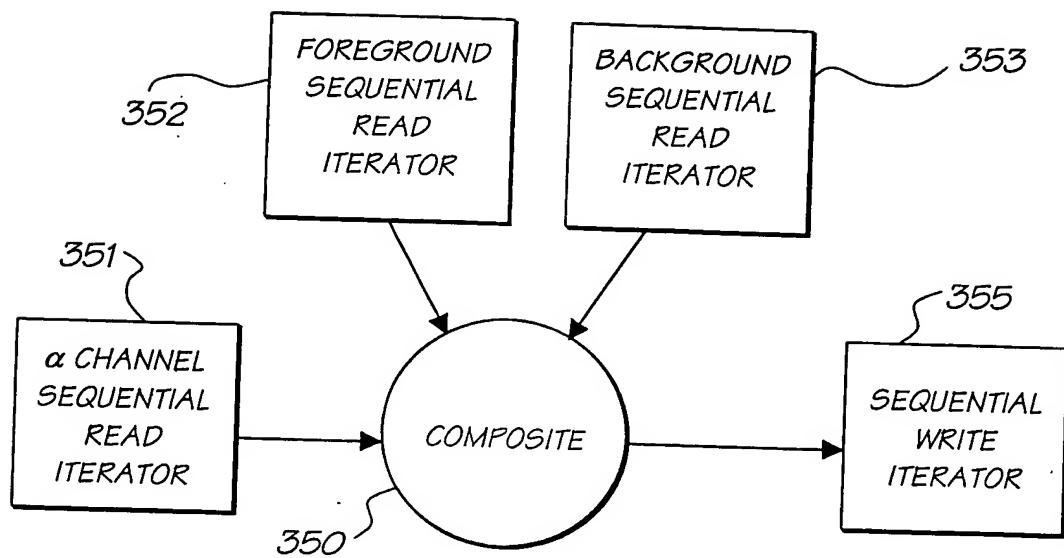


FIG. 83

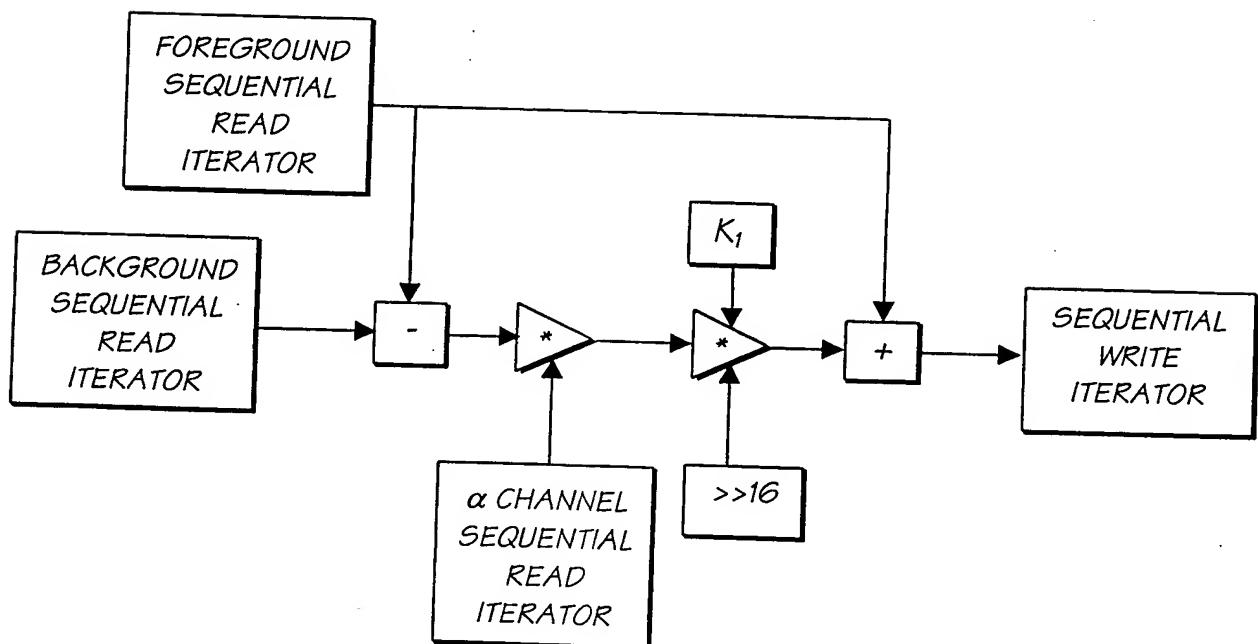


FIG. 84

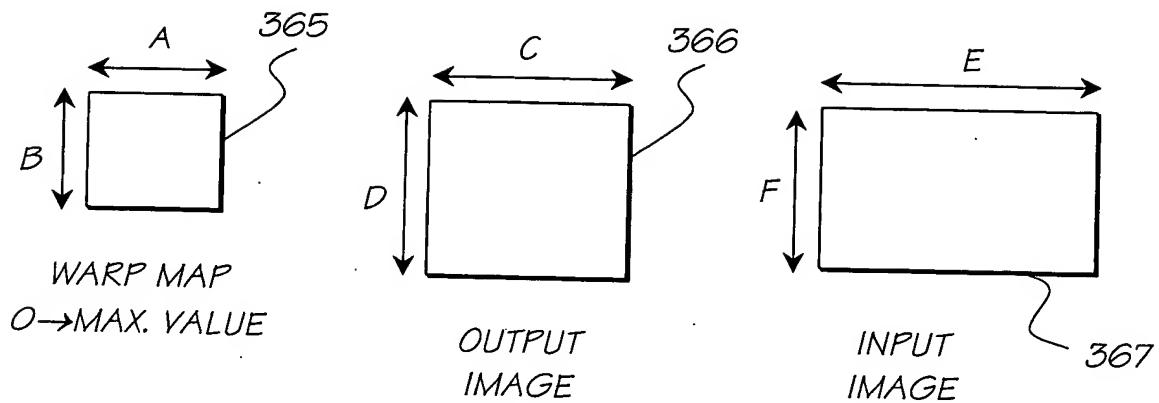


FIG. 85

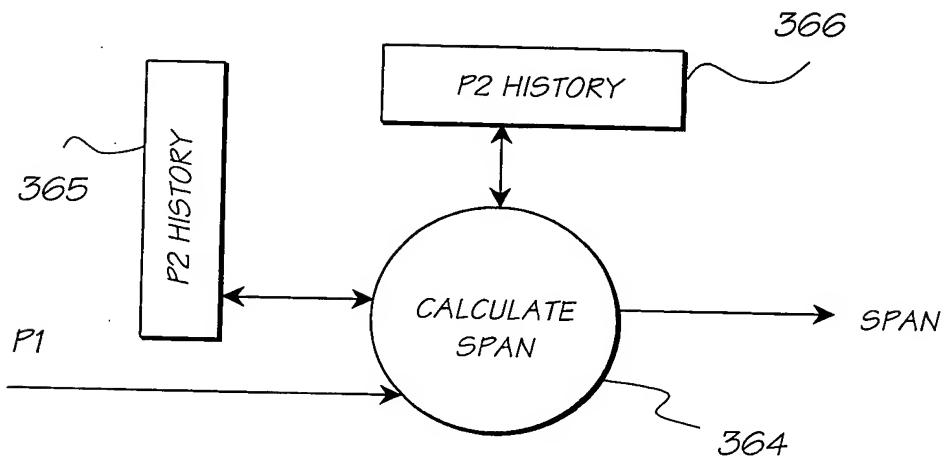


FIG. 86

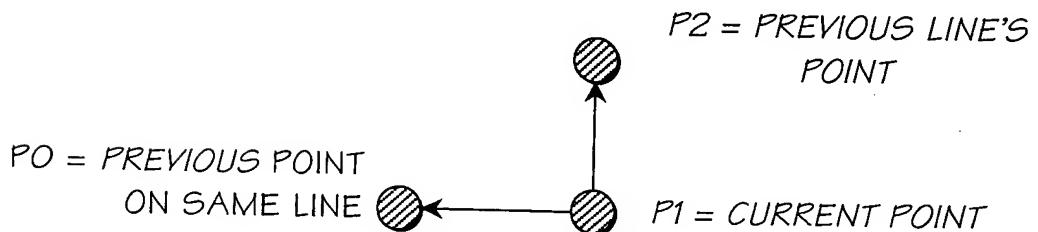


FIG. 88

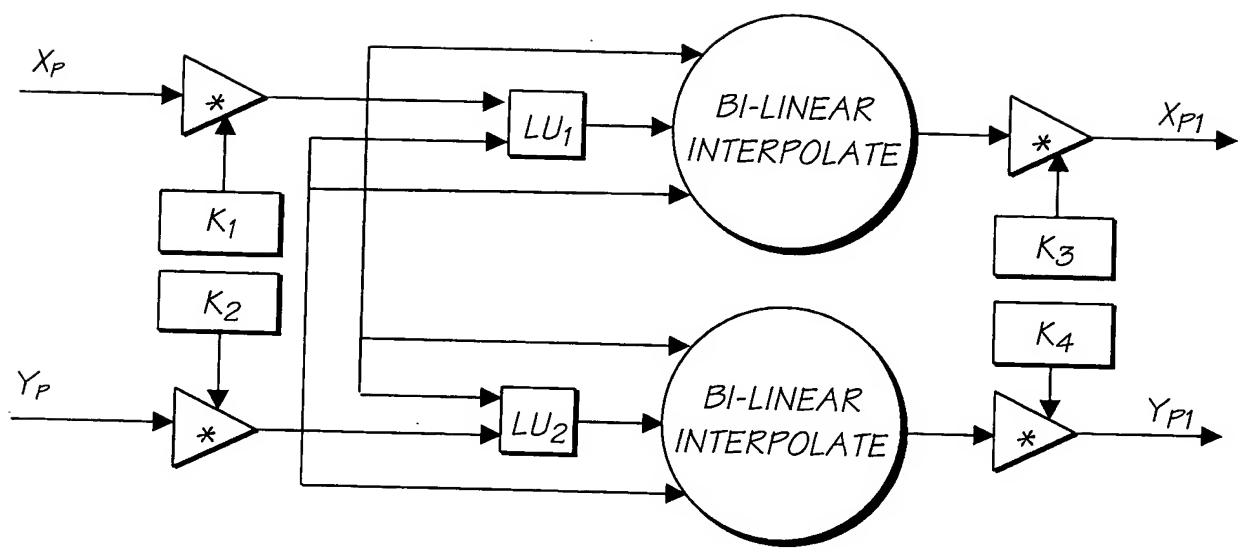


FIG. 87

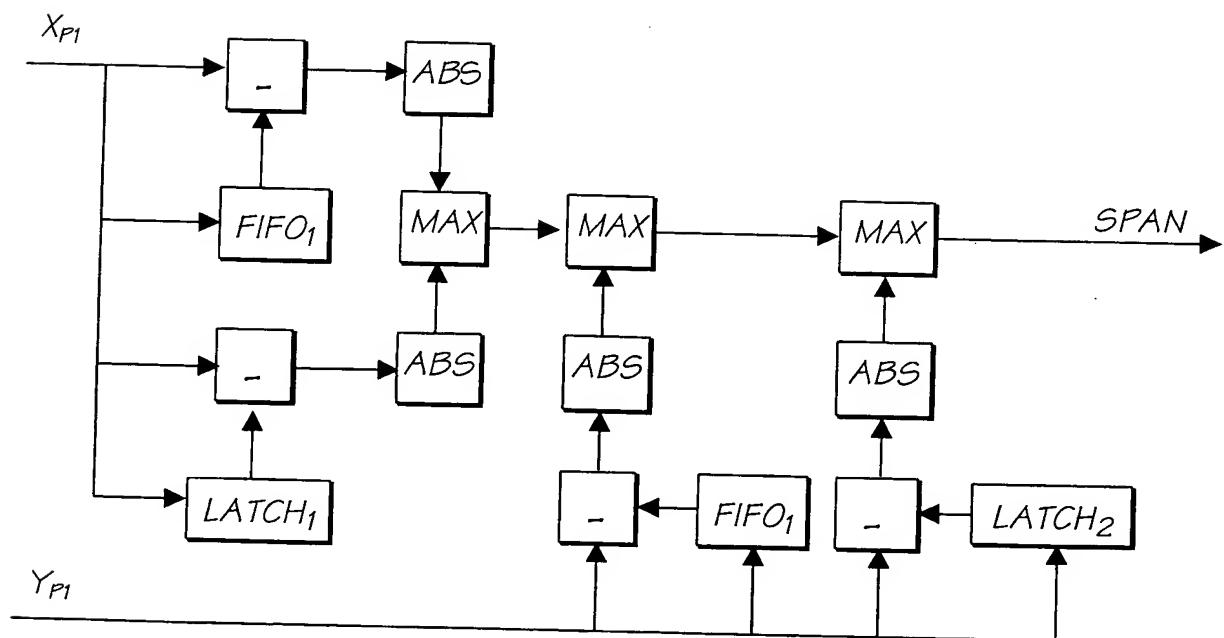


FIG. 89

POINT  $(x, y)$  ON LEVEL B  
OF PYRAMID

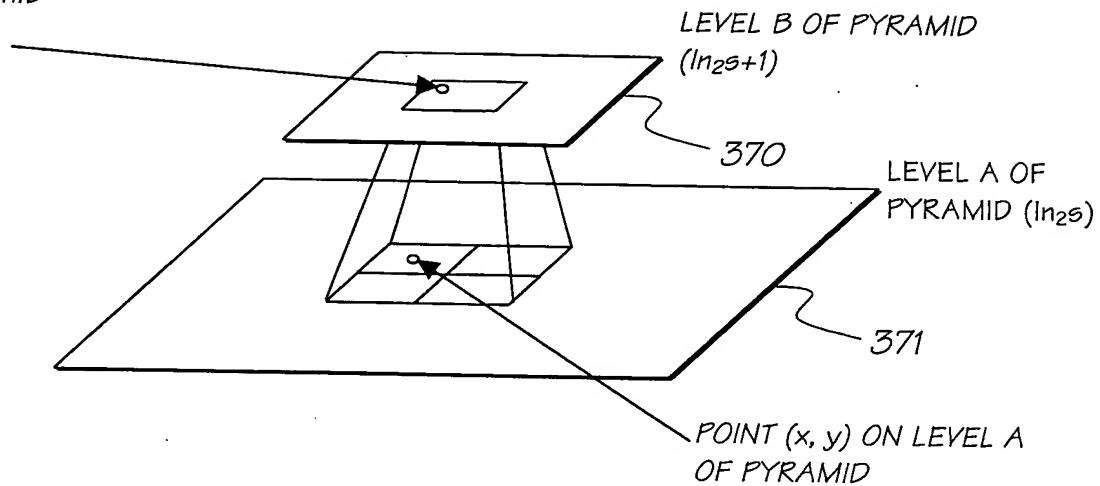


FIG. 90

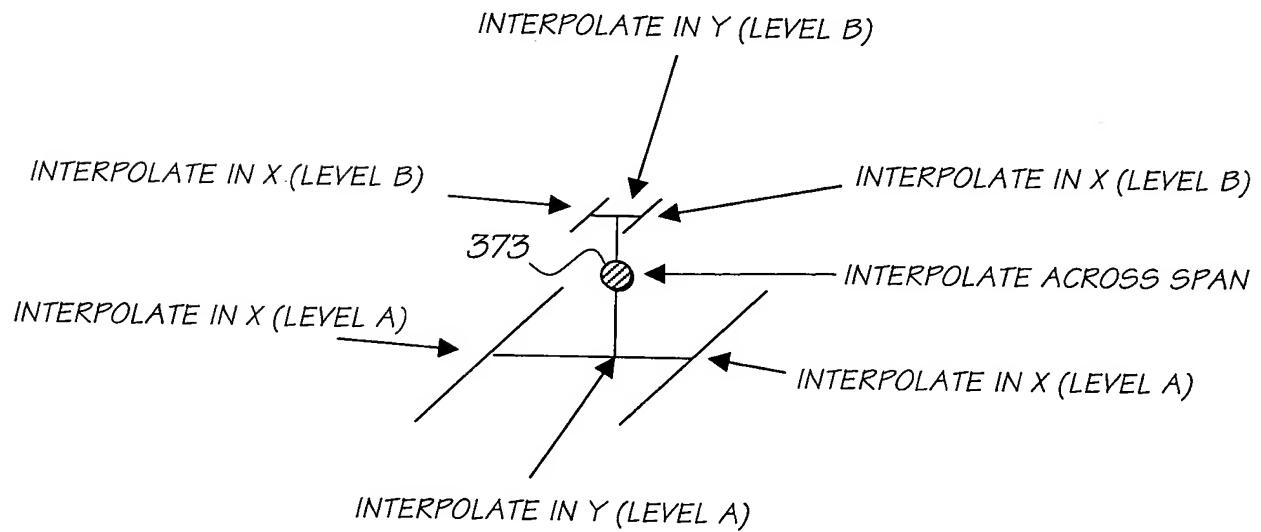


FIG. 91

378

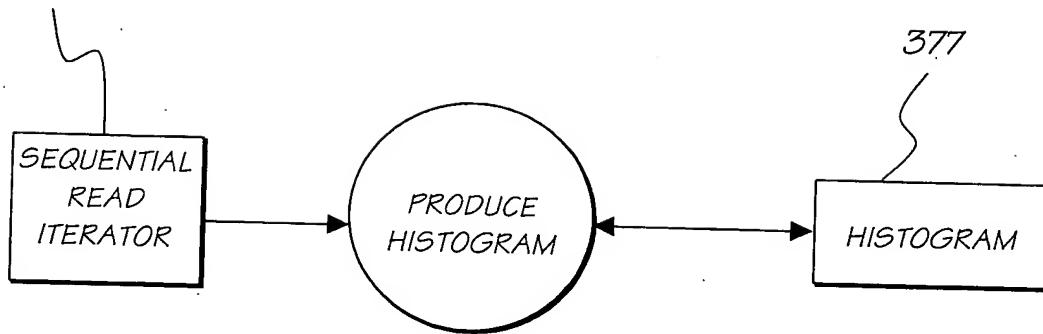


FIG. 92

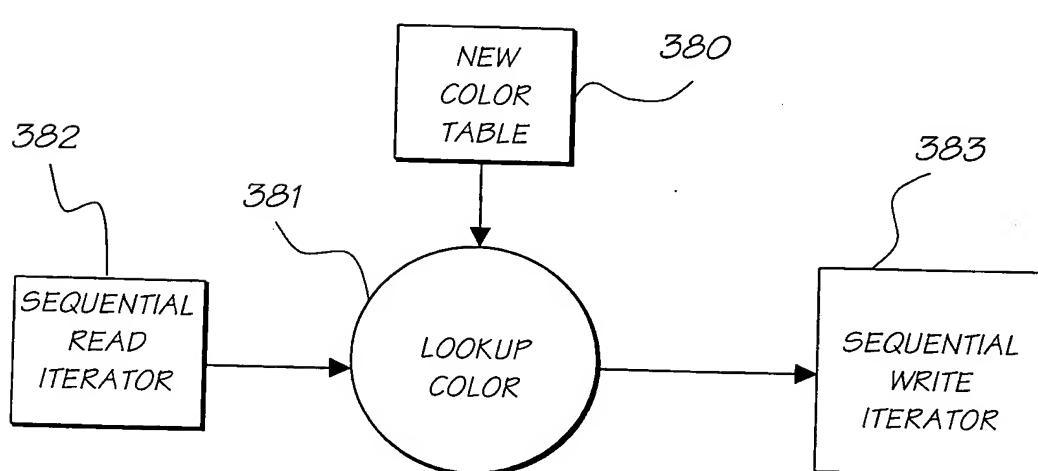


FIG. 93

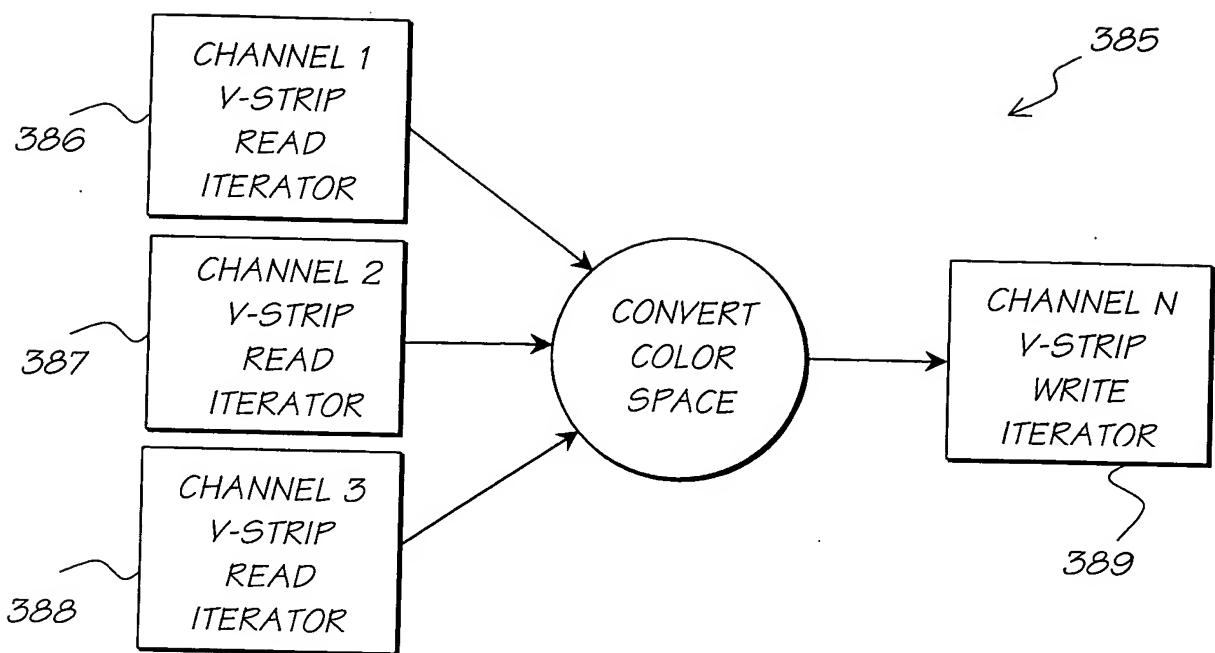


FIG. 94

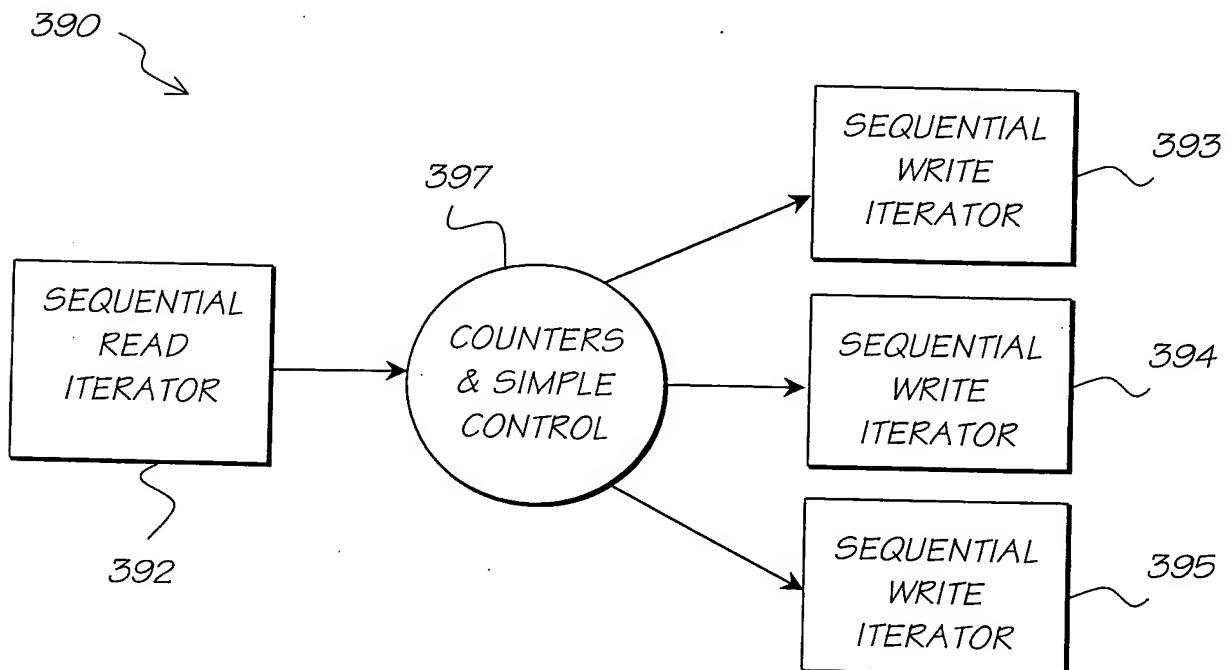


FIG. 101

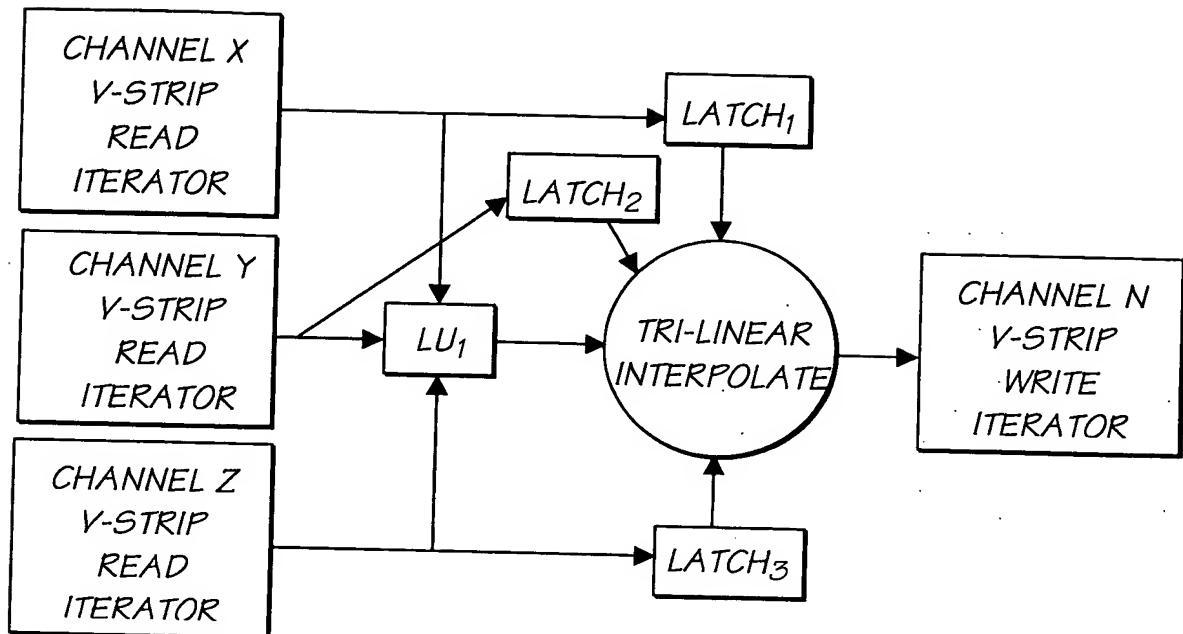


FIG. 95

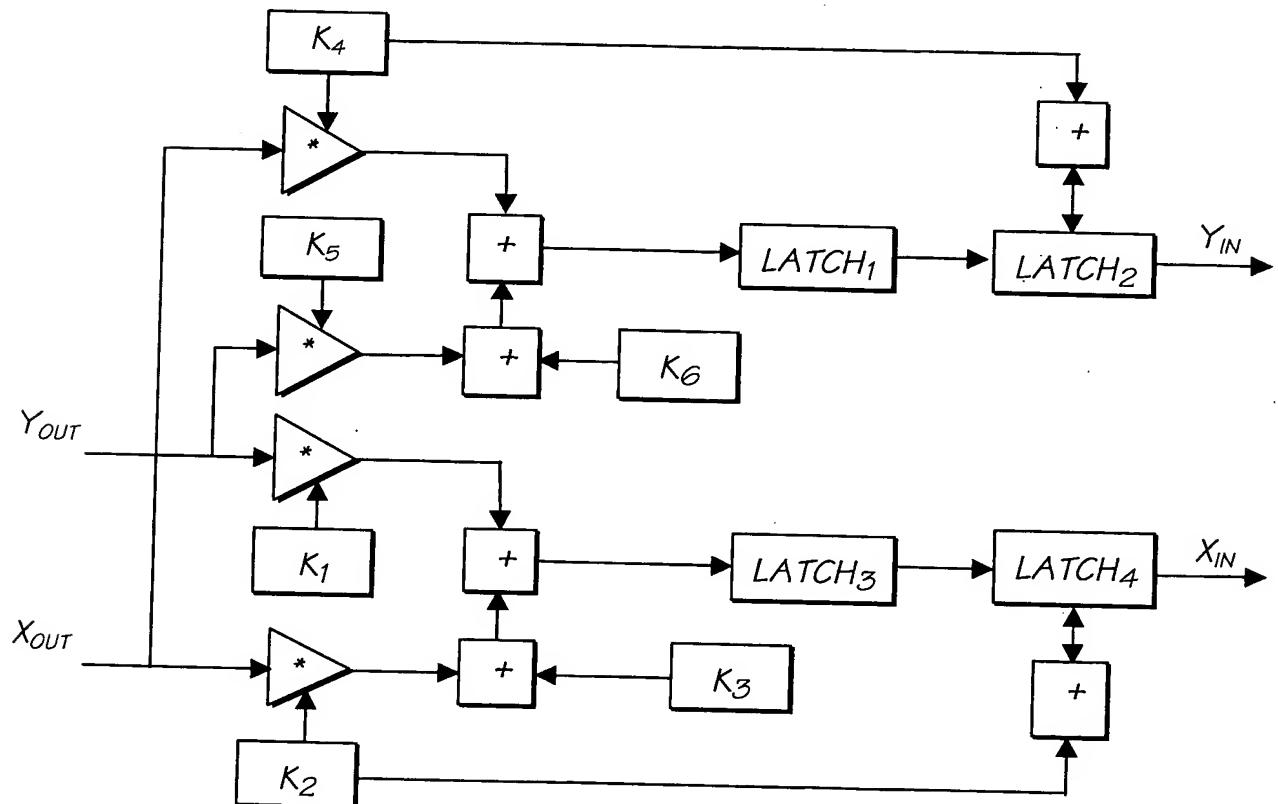


FIG. 96

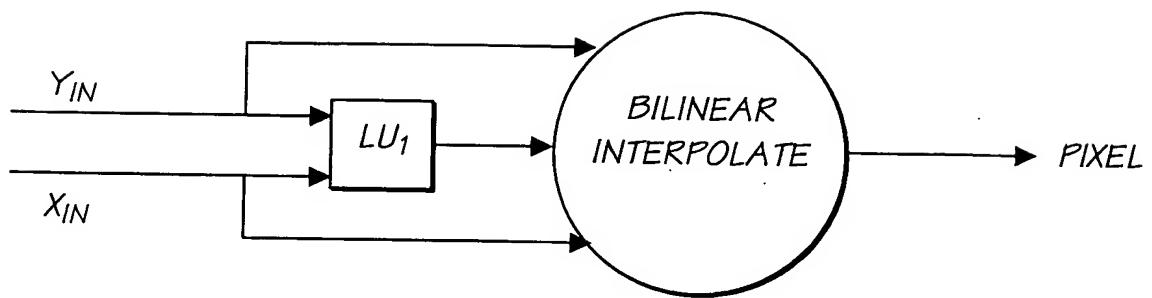


FIG. 97

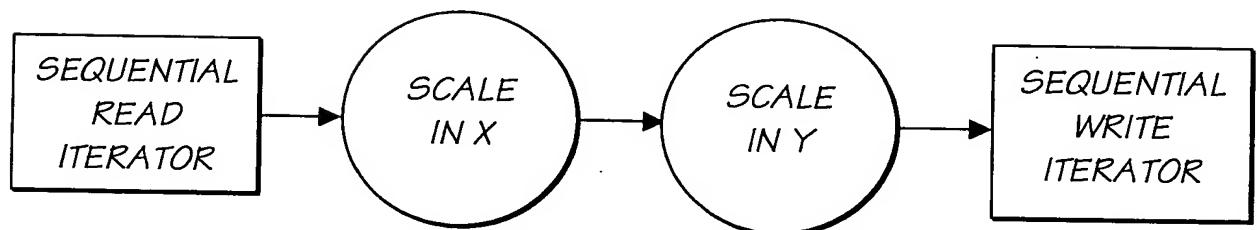


FIG. 98

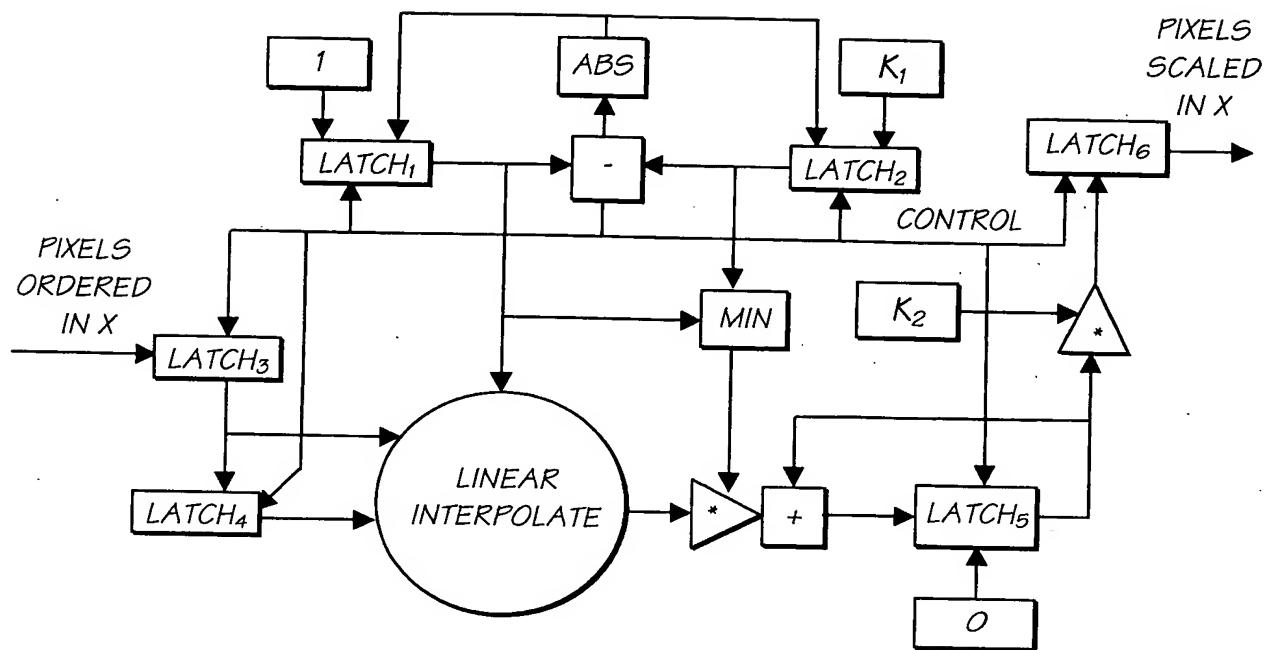


FIG. 99

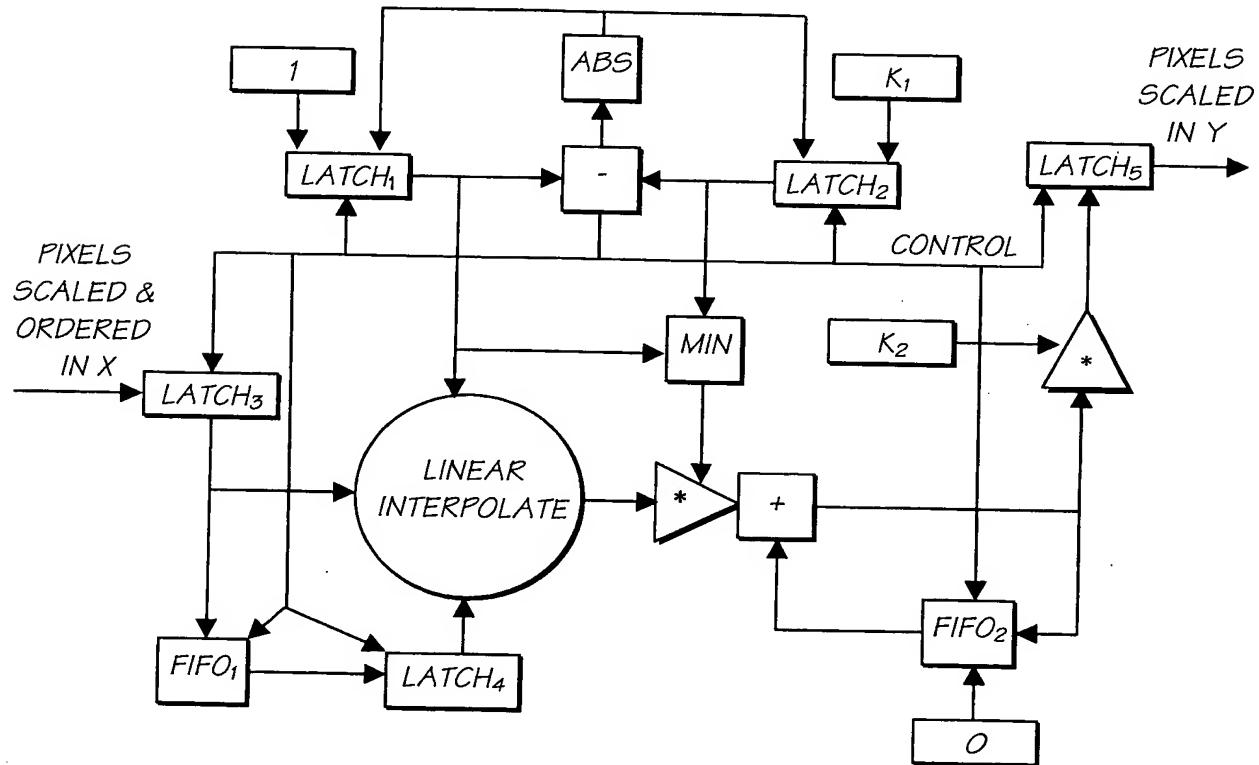


FIG. 100

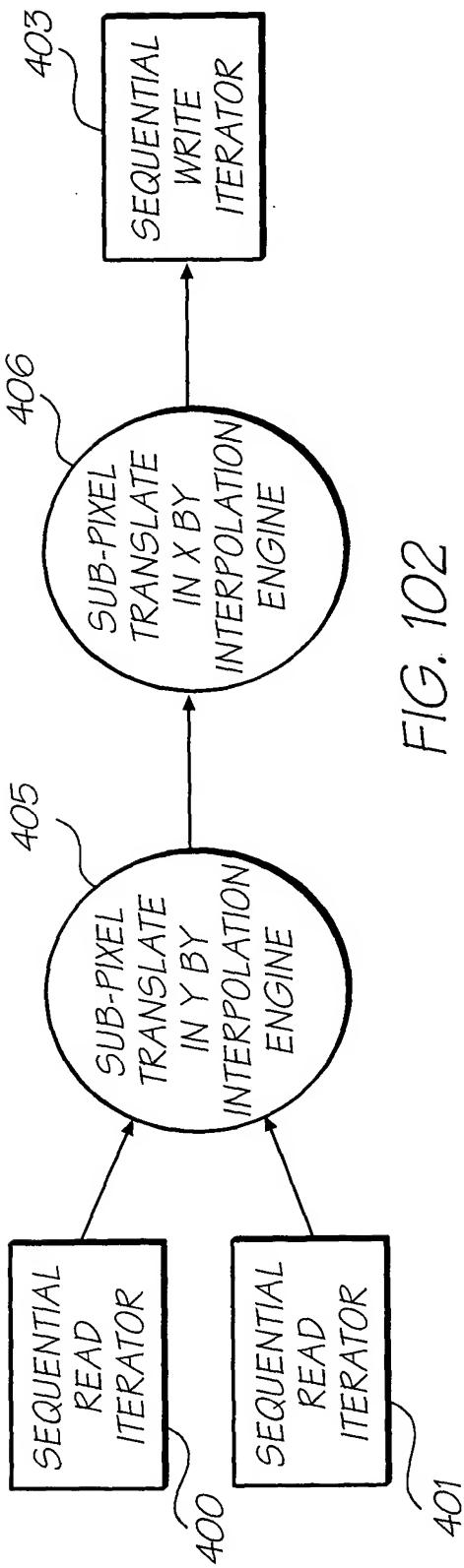


FIG. 102

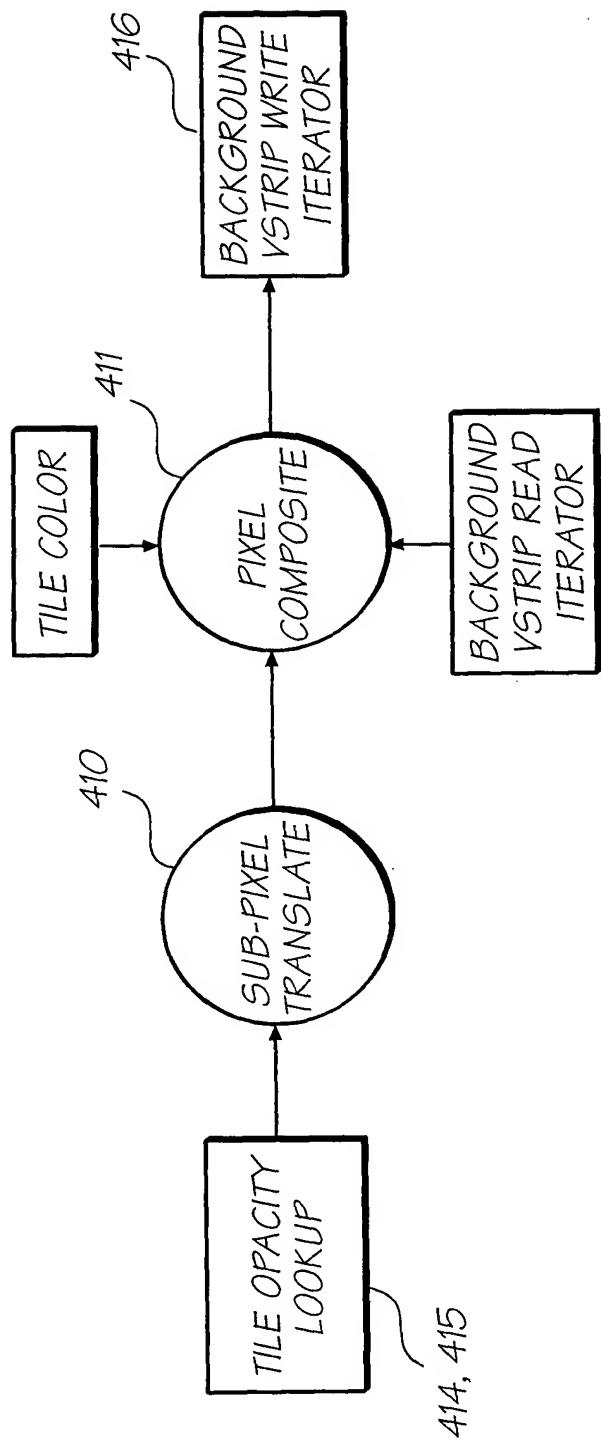
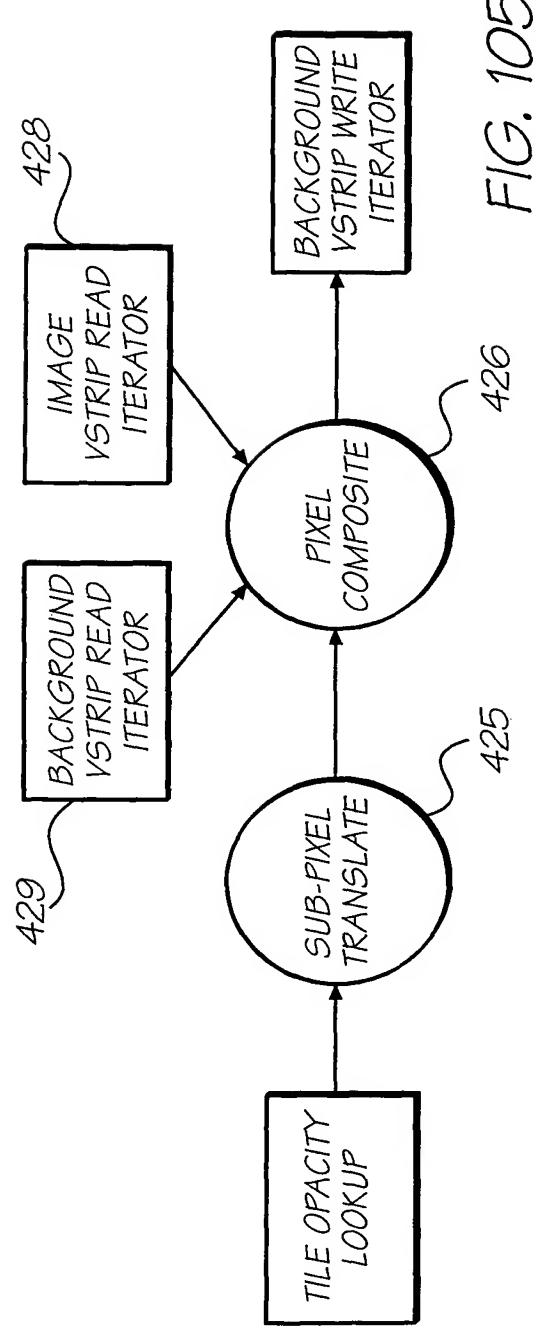
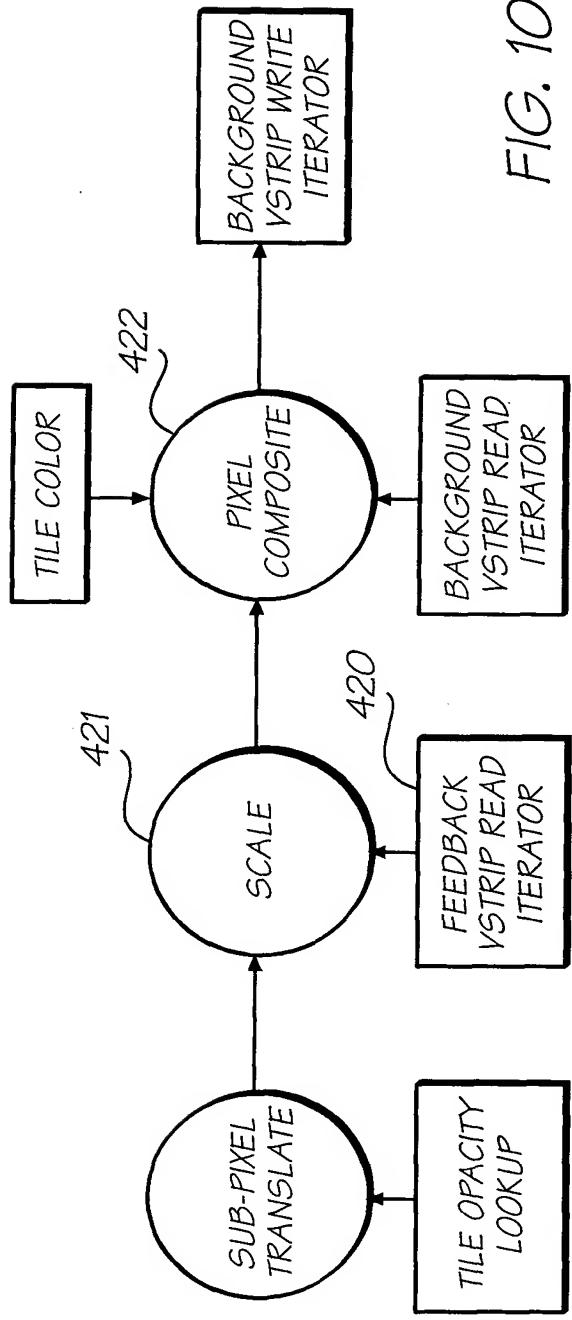


FIG. 103



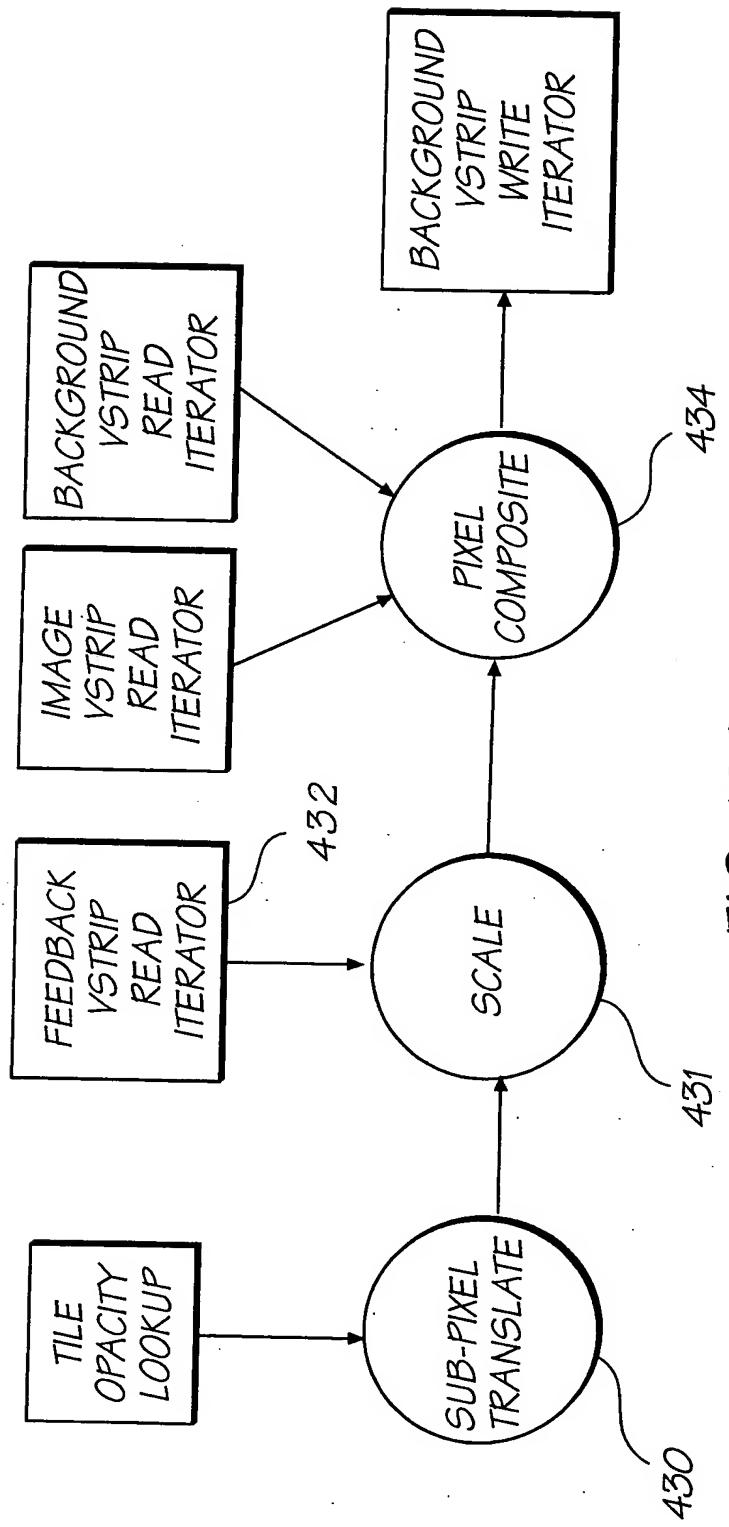


FIG. 106

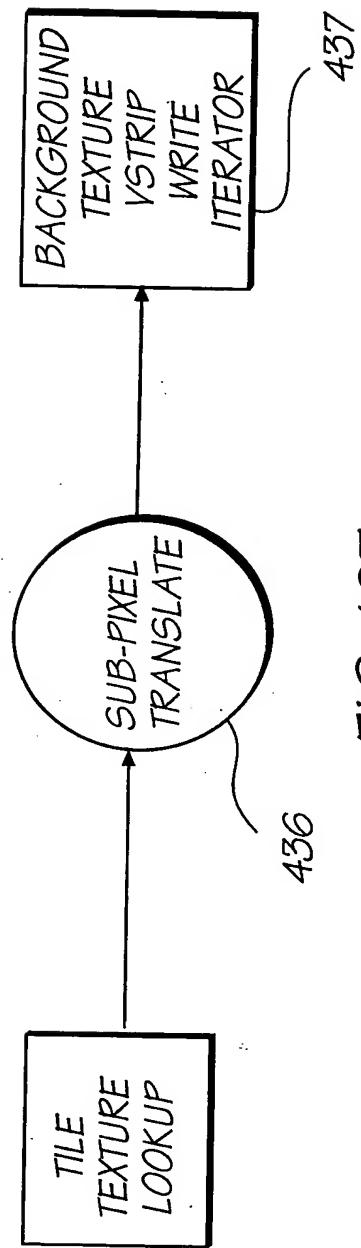


FIG. 107

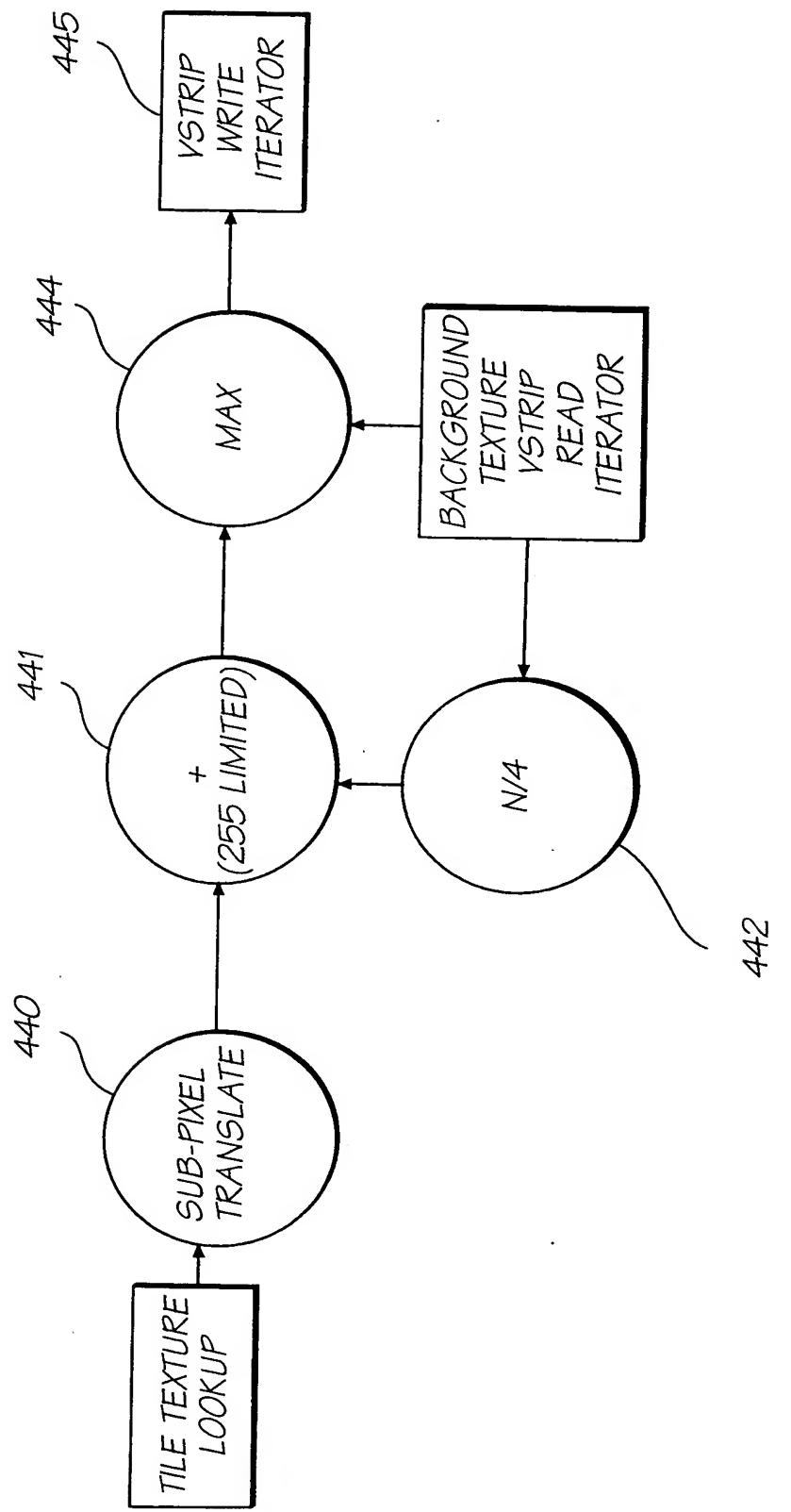
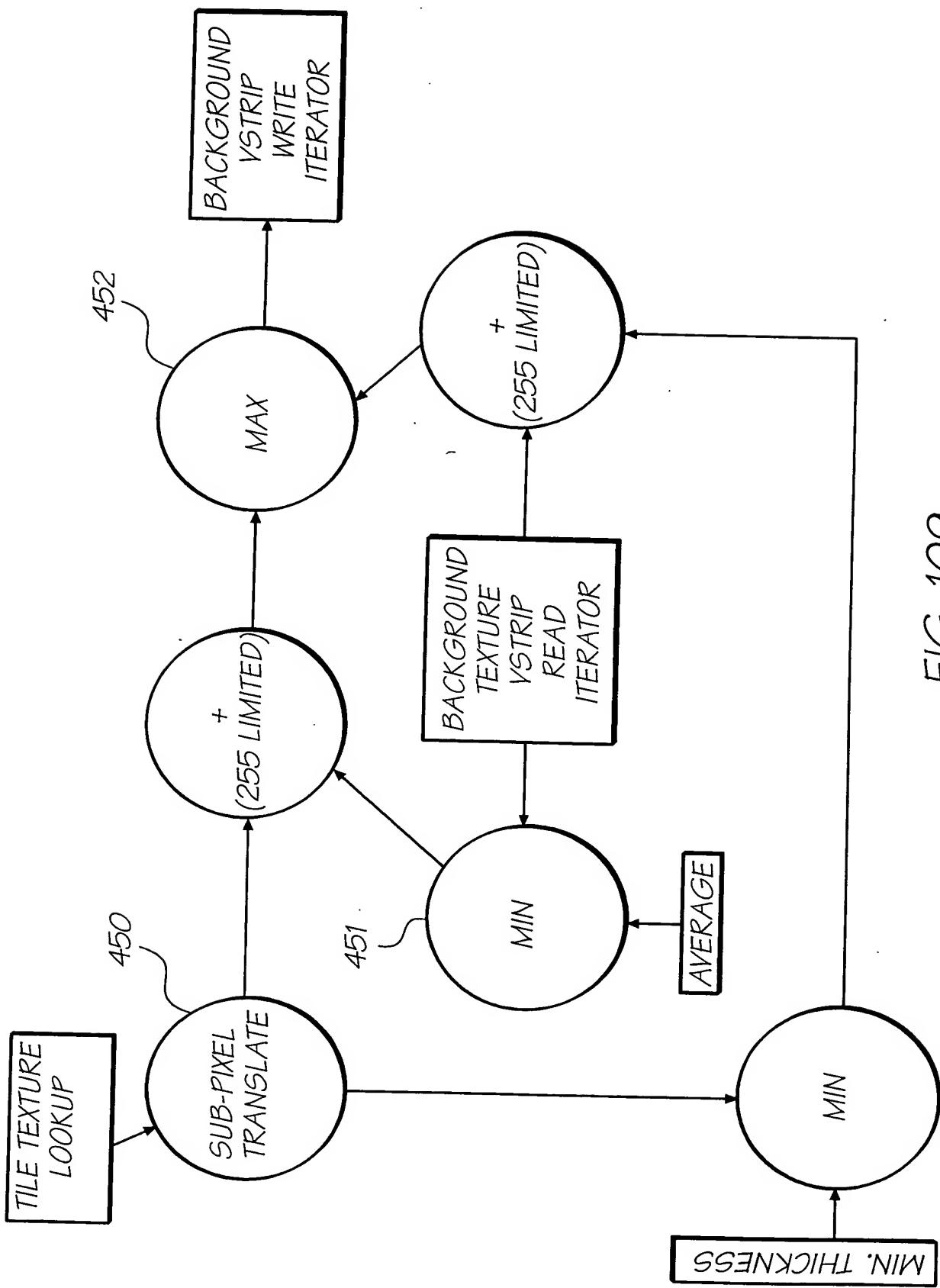


FIG. 108

FIG. 109



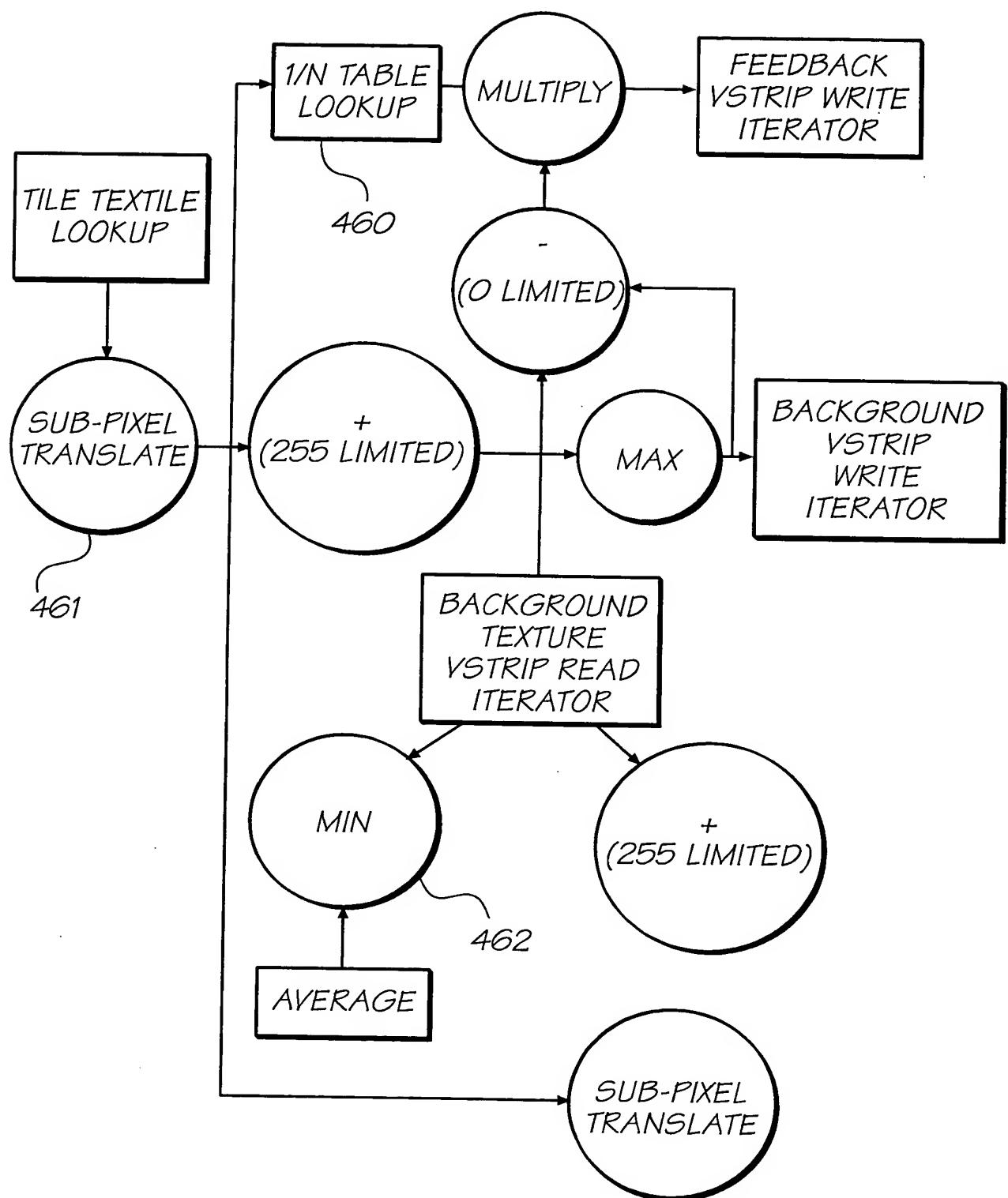


FIG. 110

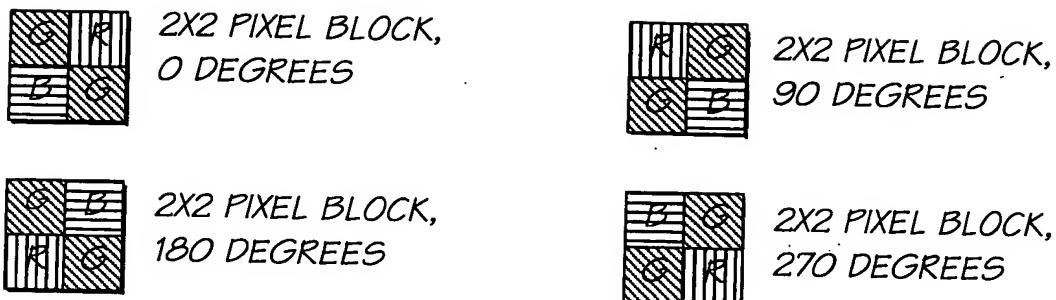


FIG. 111

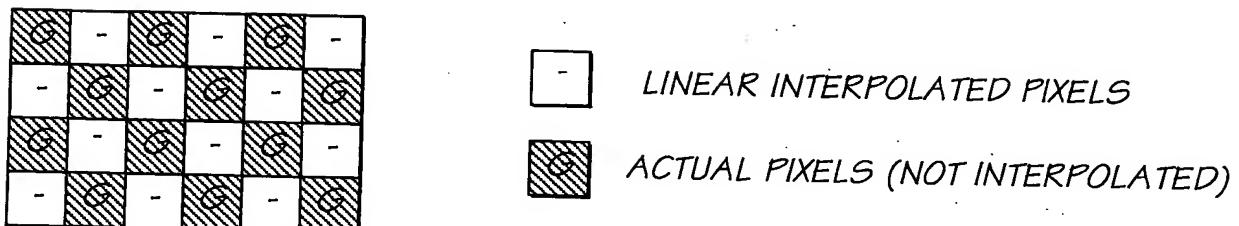


FIG. 112

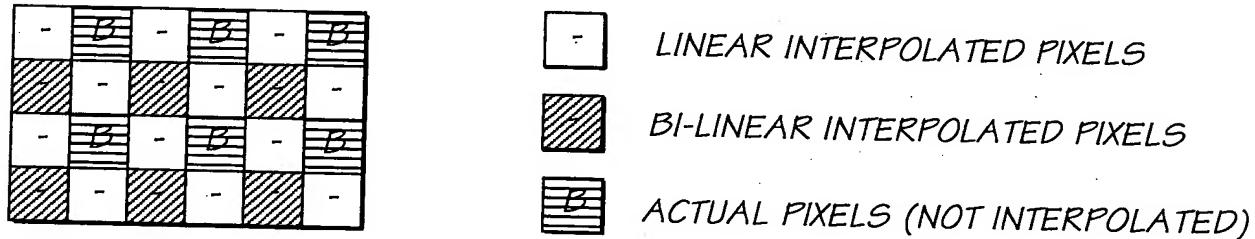


FIG. 113

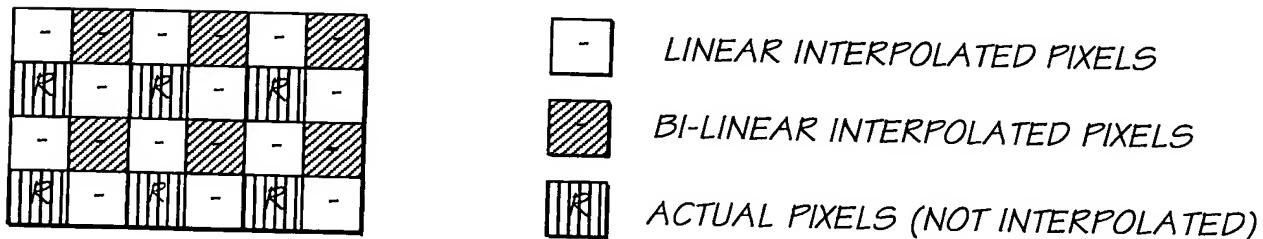


FIG. 114

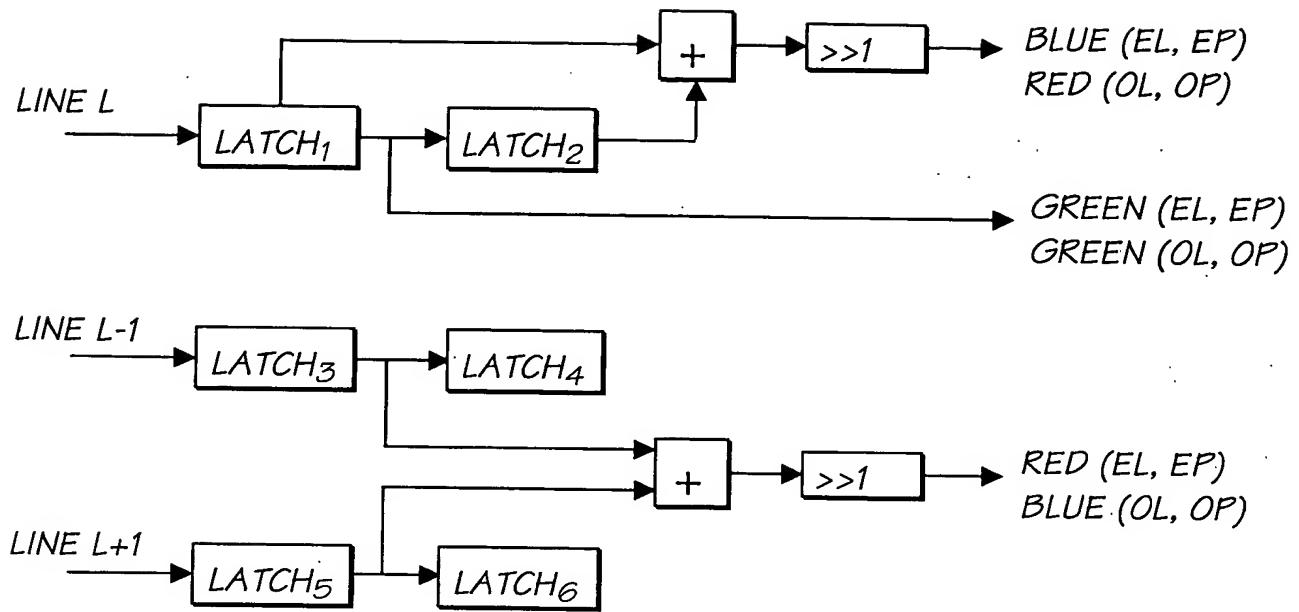


FIG. 115

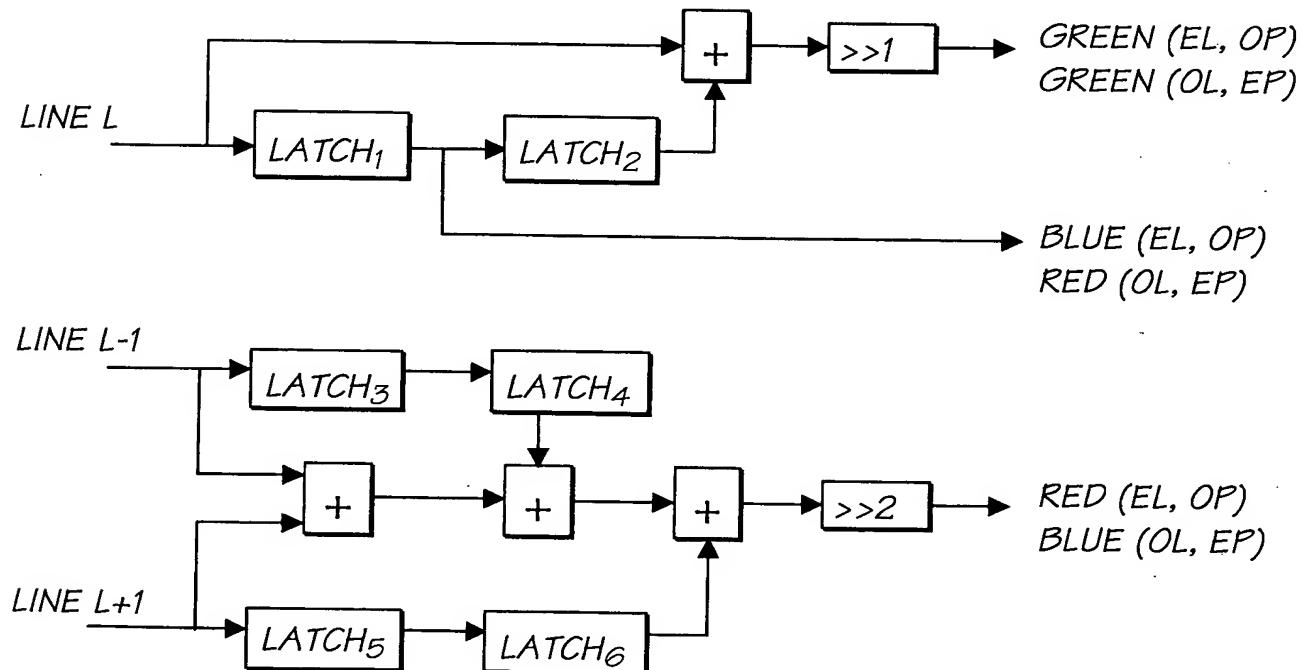


FIG. 116

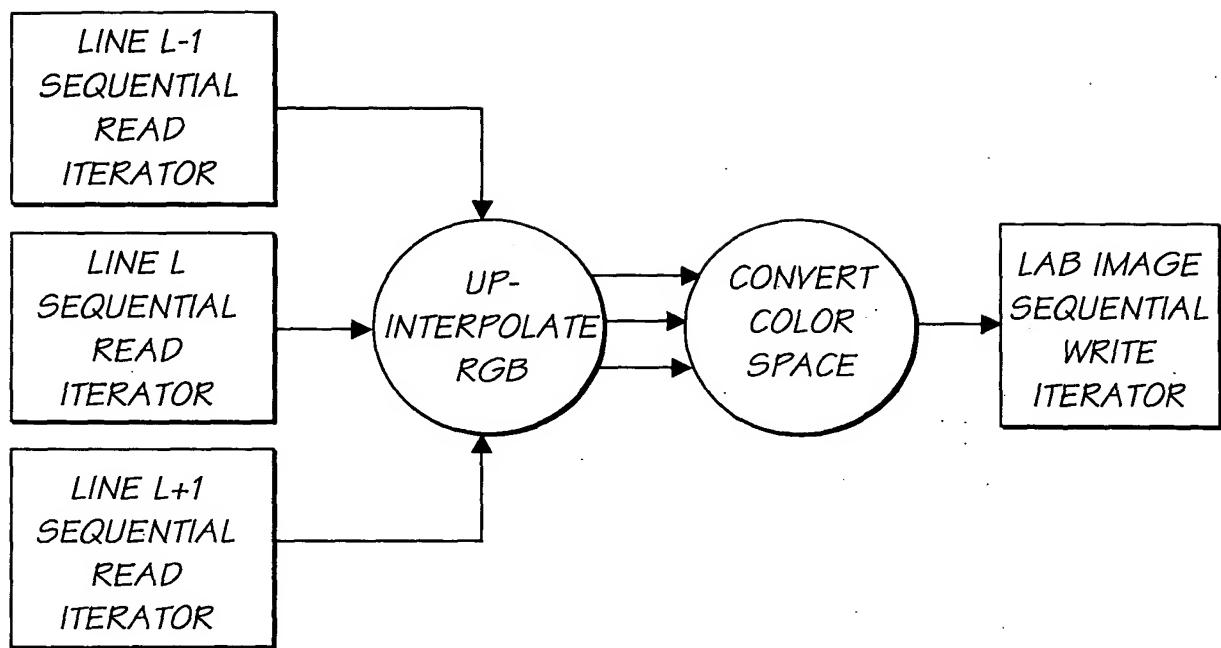


FIG. 117

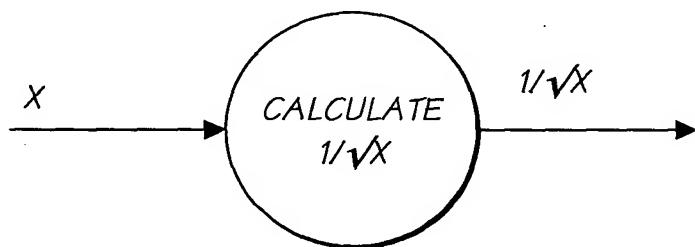


FIG. 118

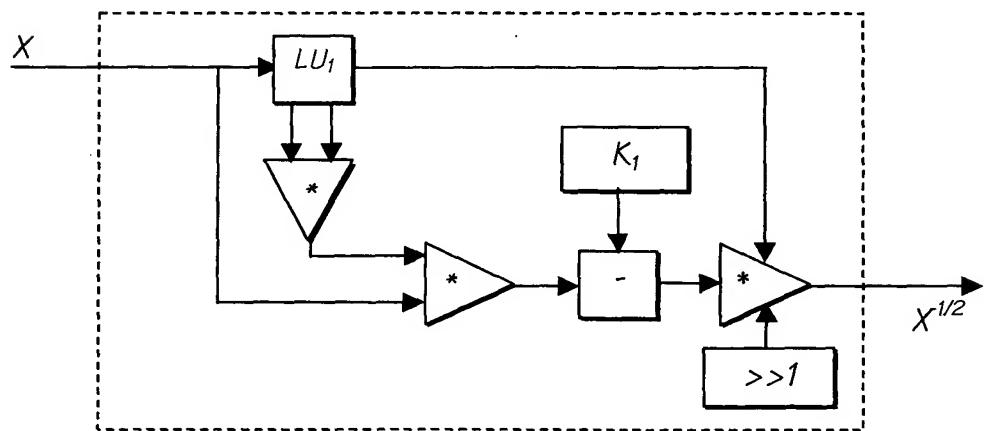


FIG. 119

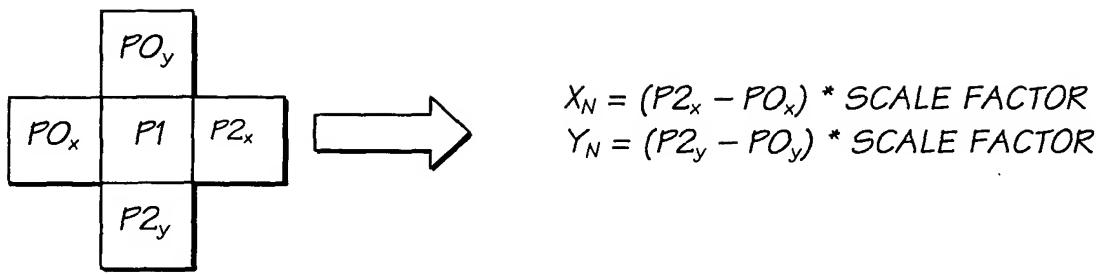


FIG. 120

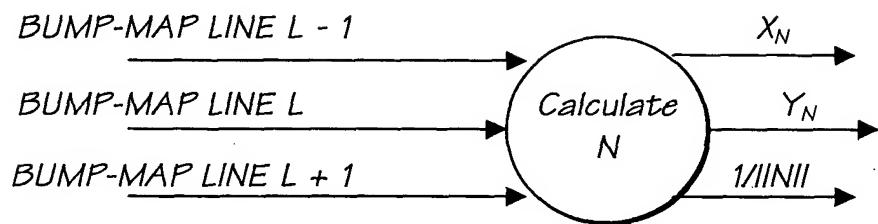


FIG. 121

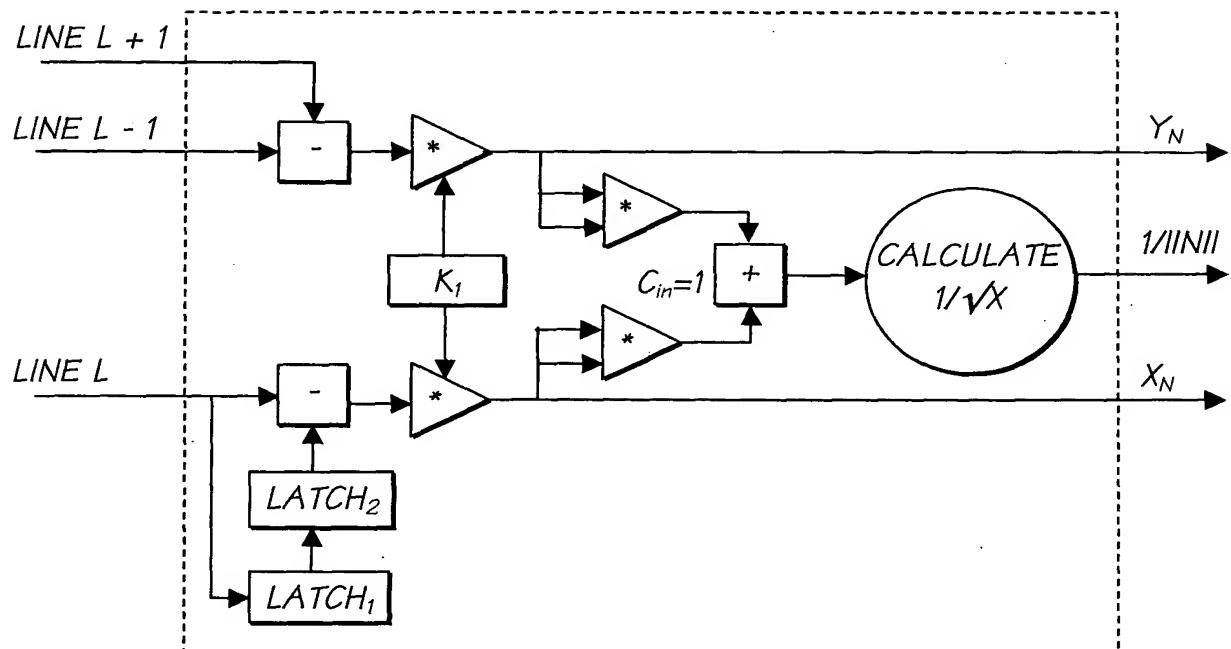


FIG. 122

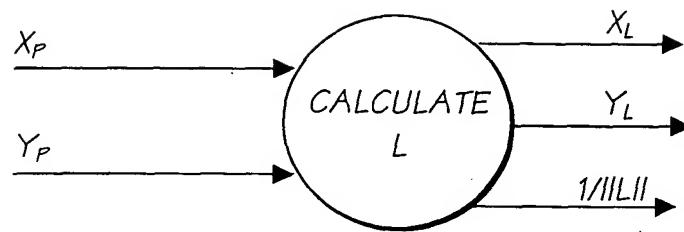


FIG. 123

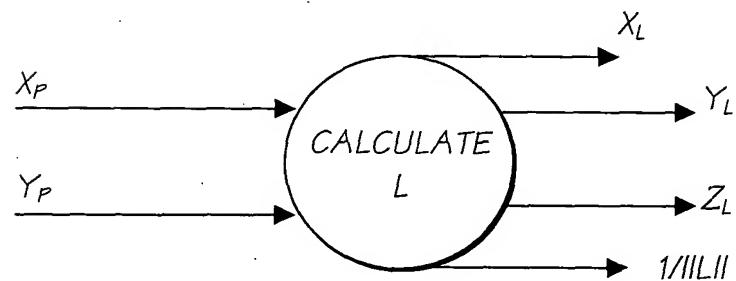


FIG. 124

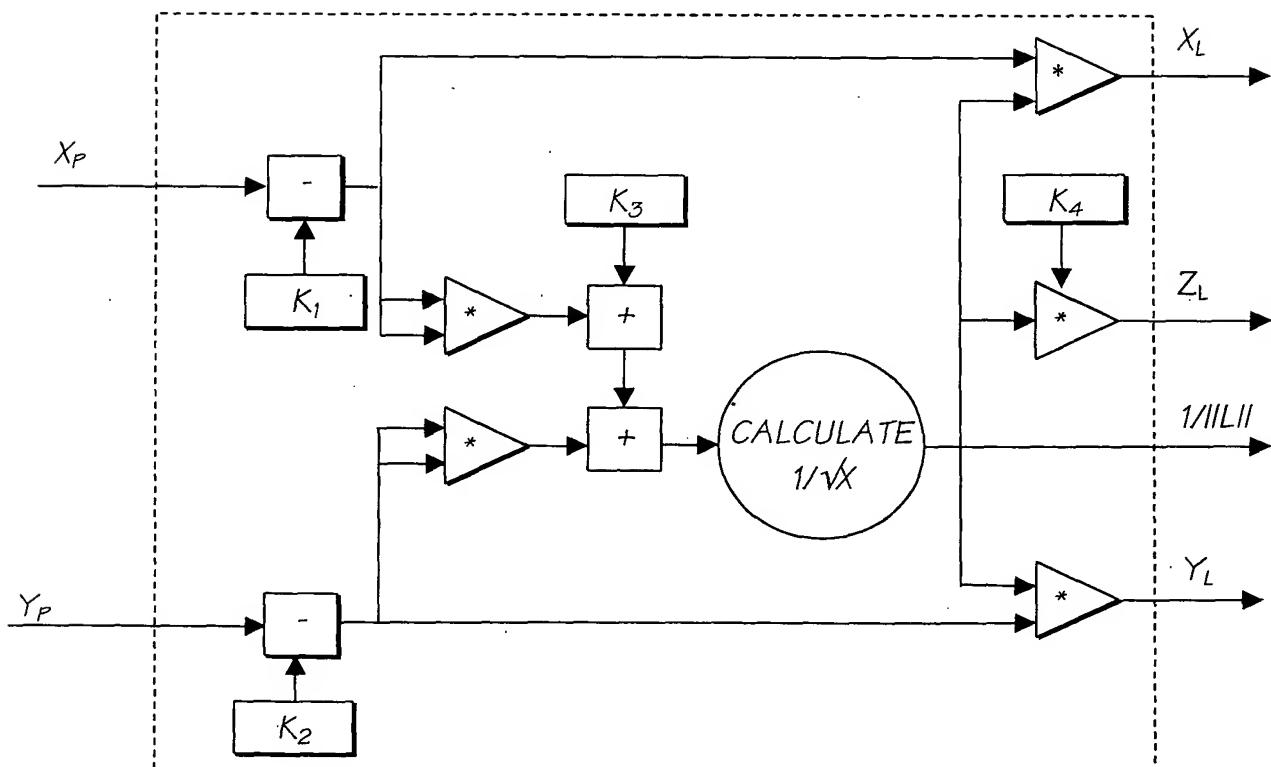


FIG. 125

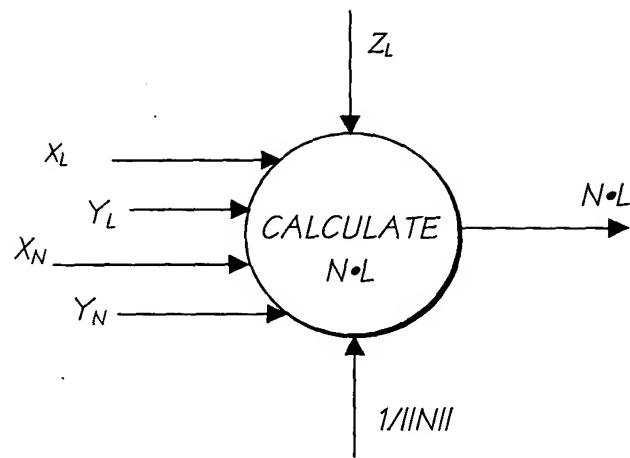


FIG. 126

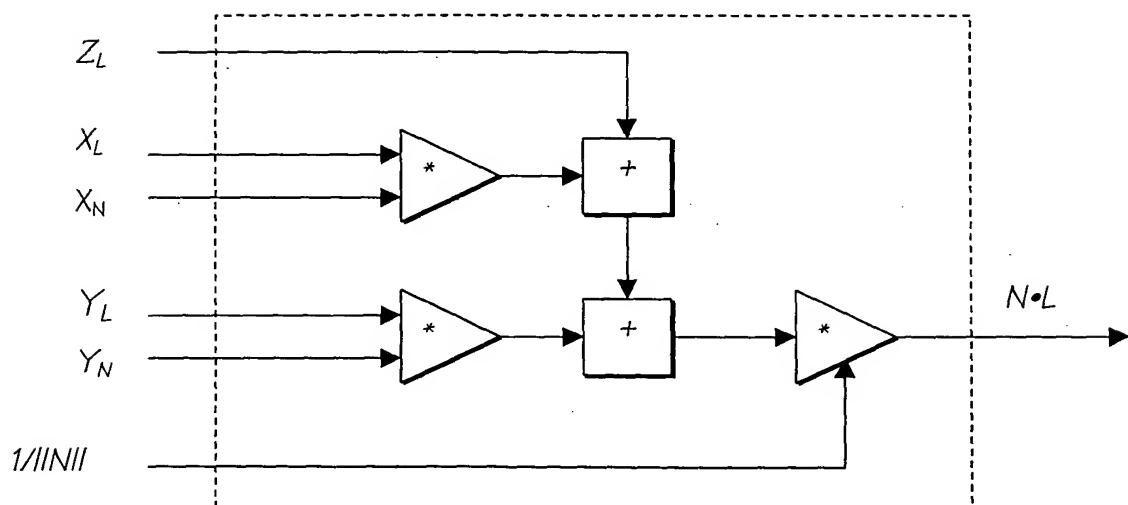


FIG. 127

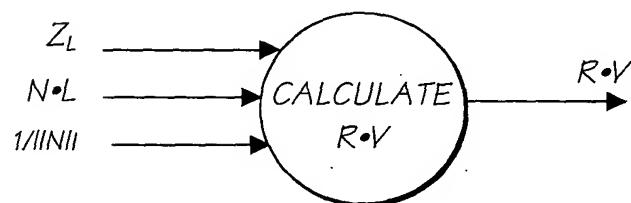


FIG. 128

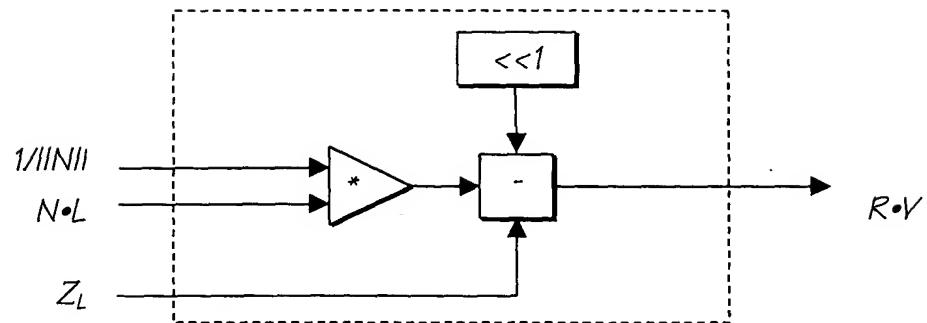


FIG. 129

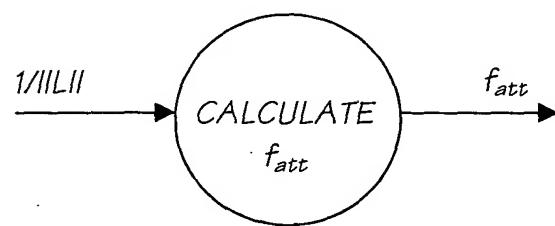


FIG. 130

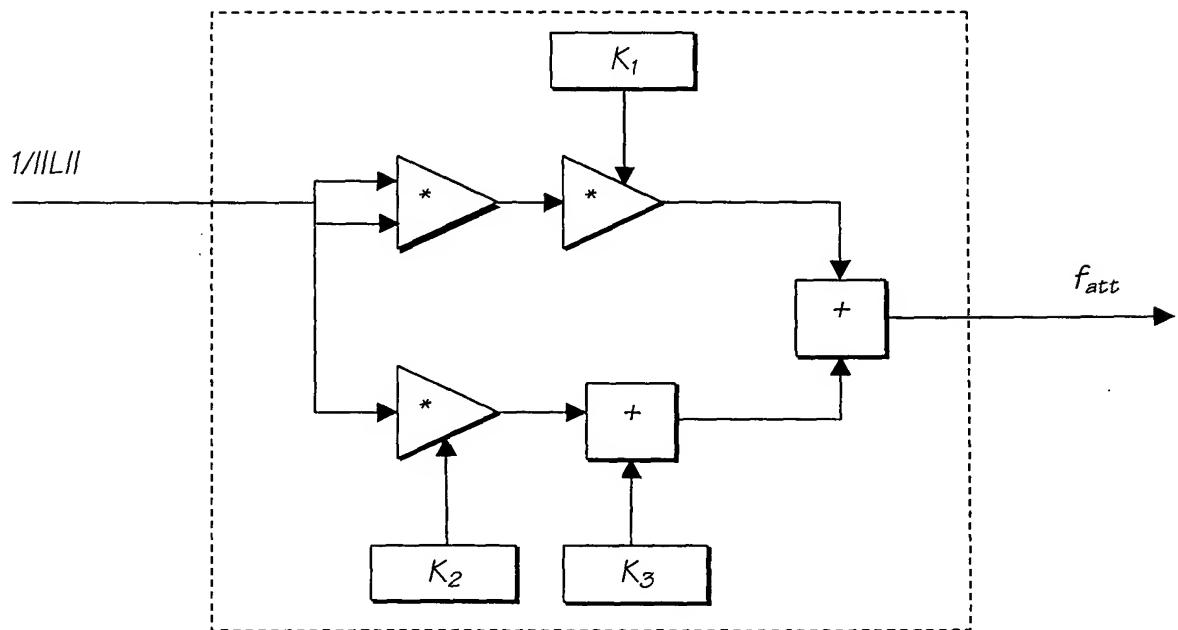


FIG. 131

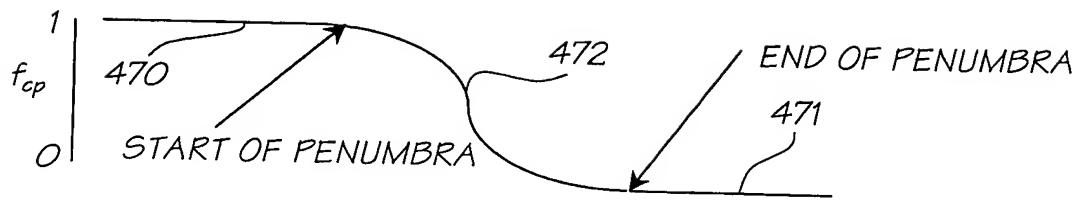


FIG. 132

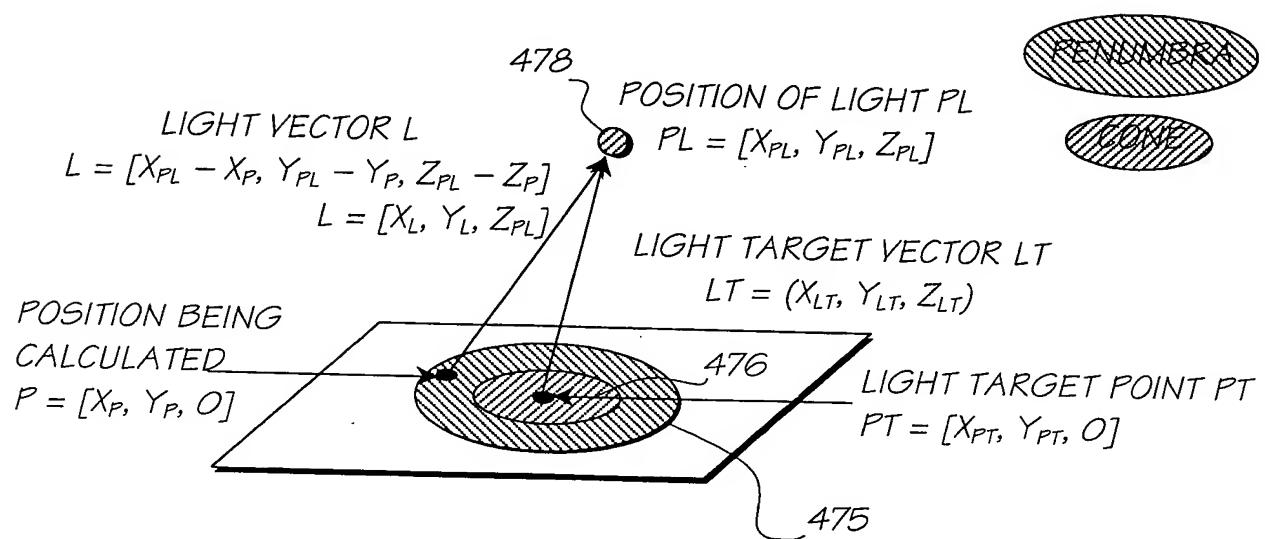


FIG. 133

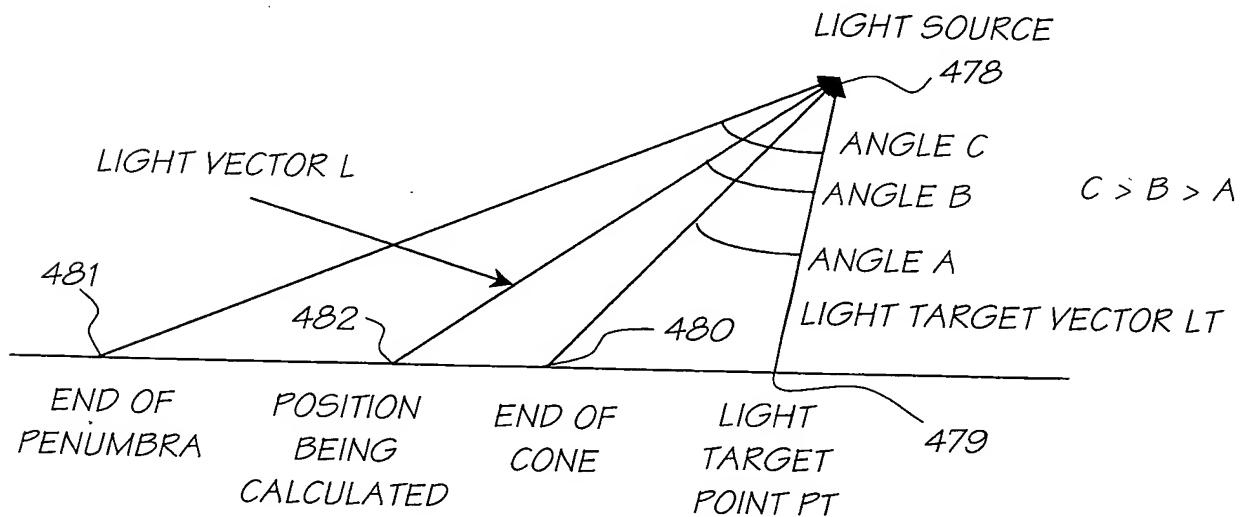


FIG. 134

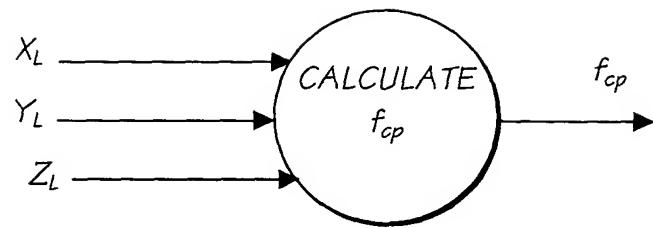


FIG. 135

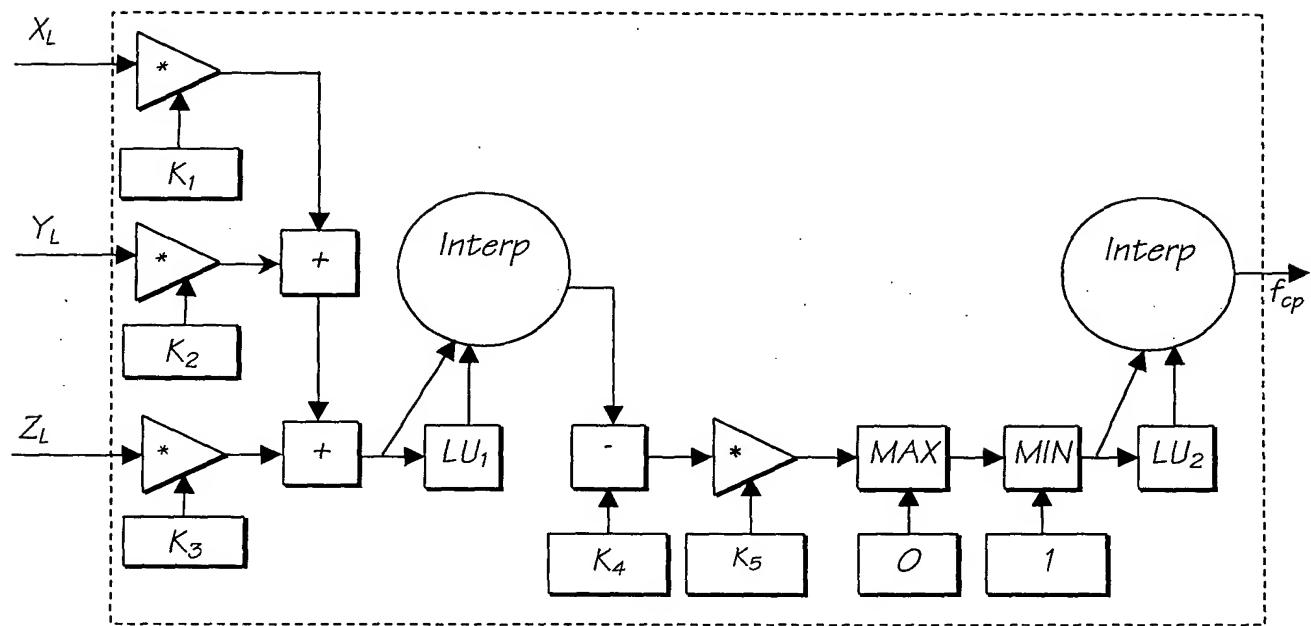


FIG. 136

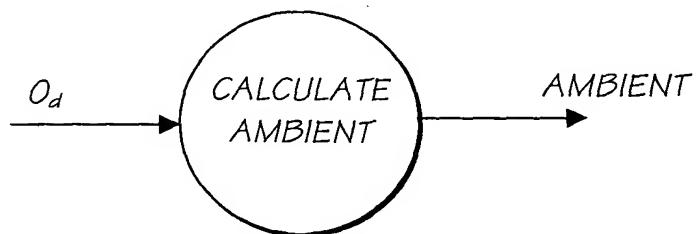


FIG. 137

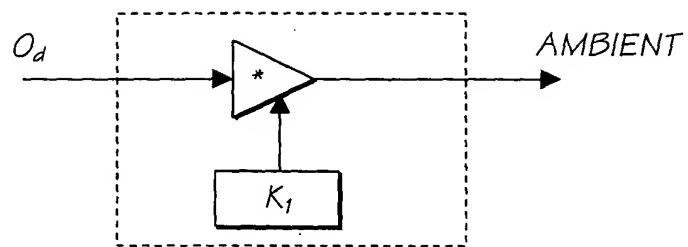


FIG. 138

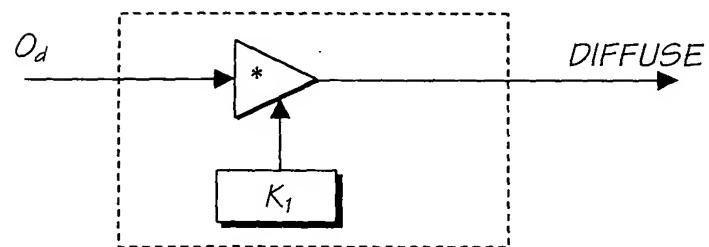


FIG. 139

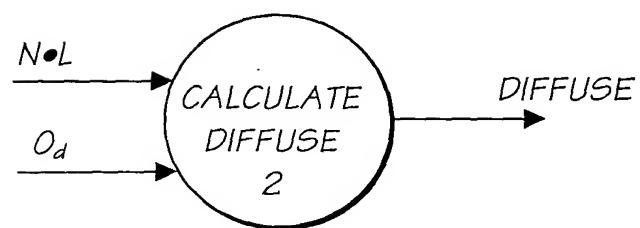


FIG. 140

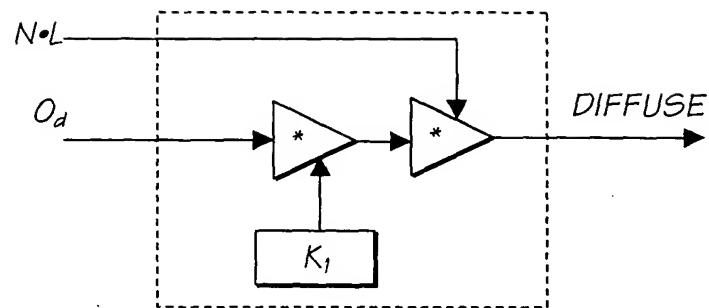


FIG. 141

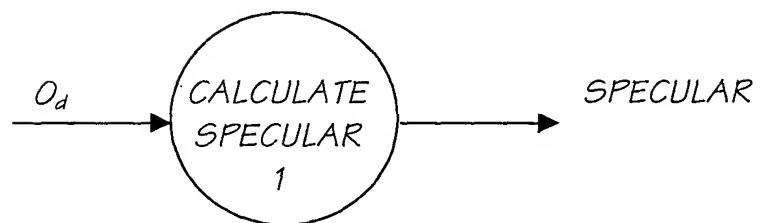


FIG. 142

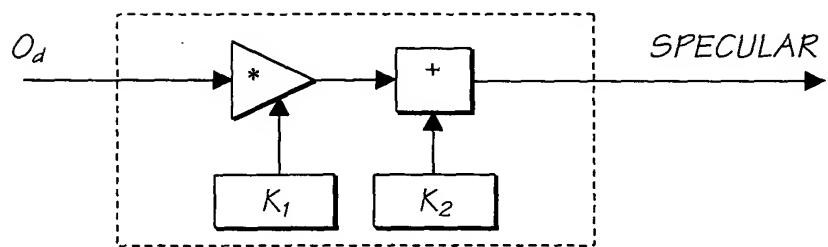


FIG. 143

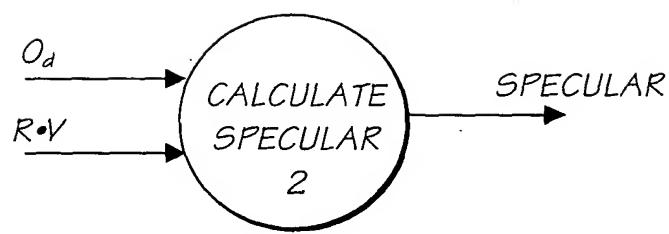


FIG. 144

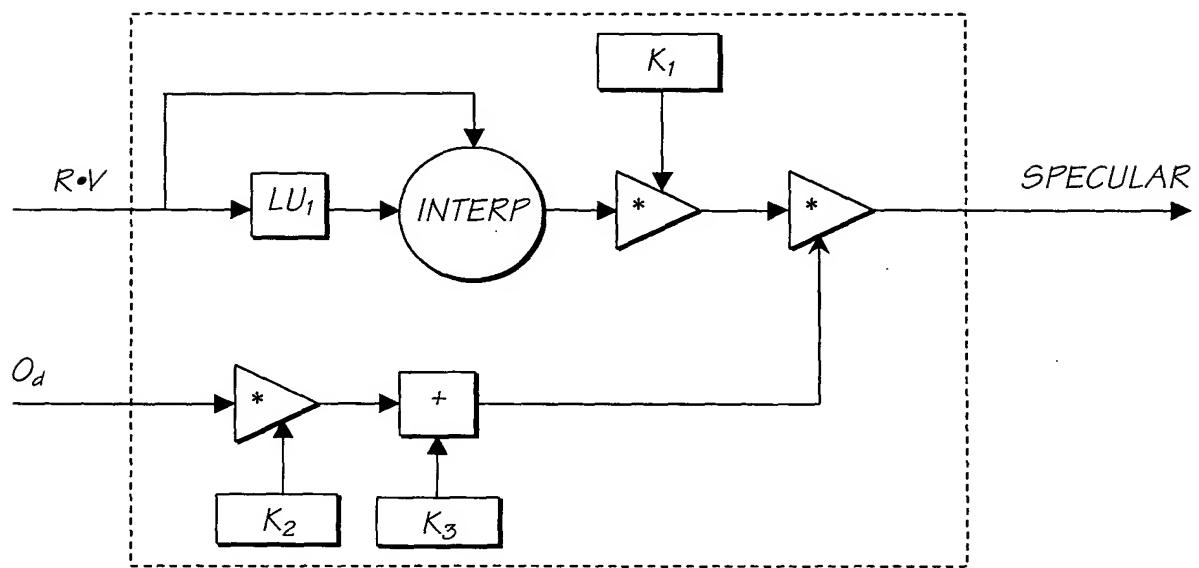


FIG. 145

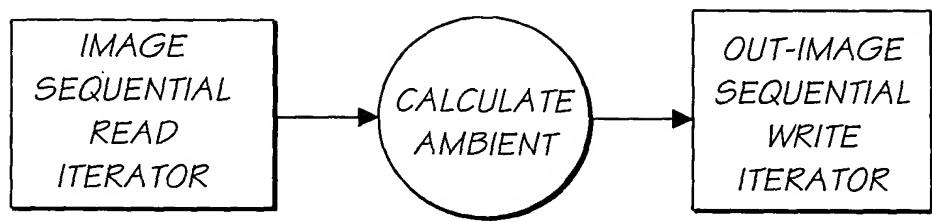


FIG. 146

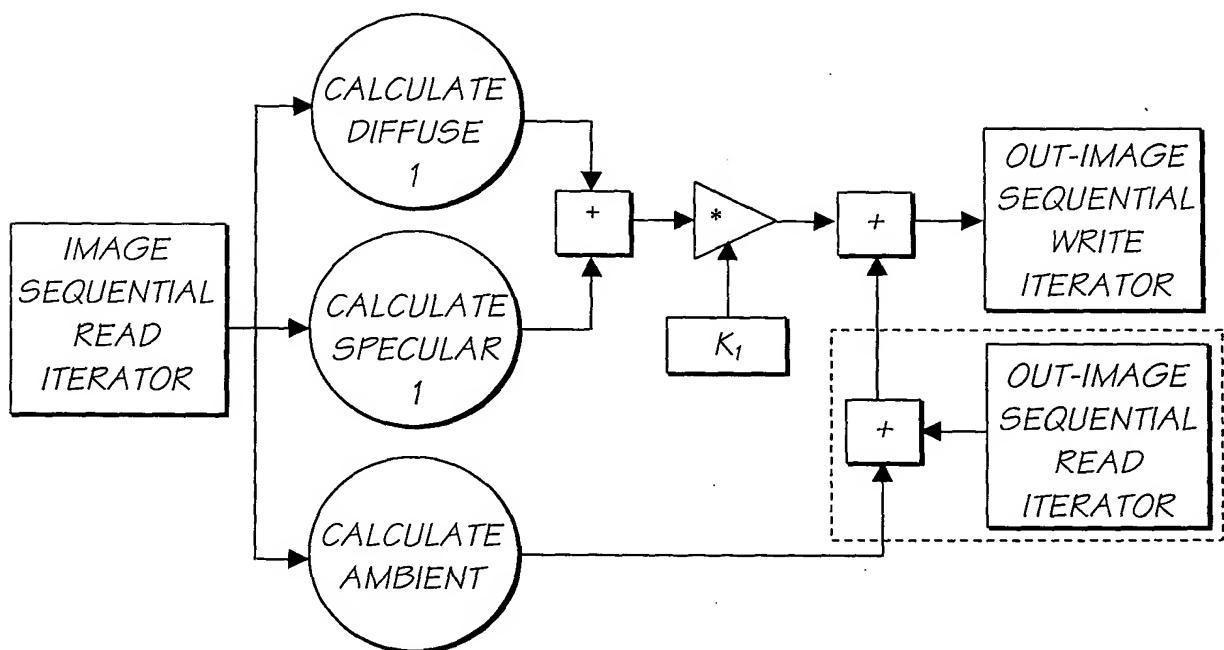


FIG. 147

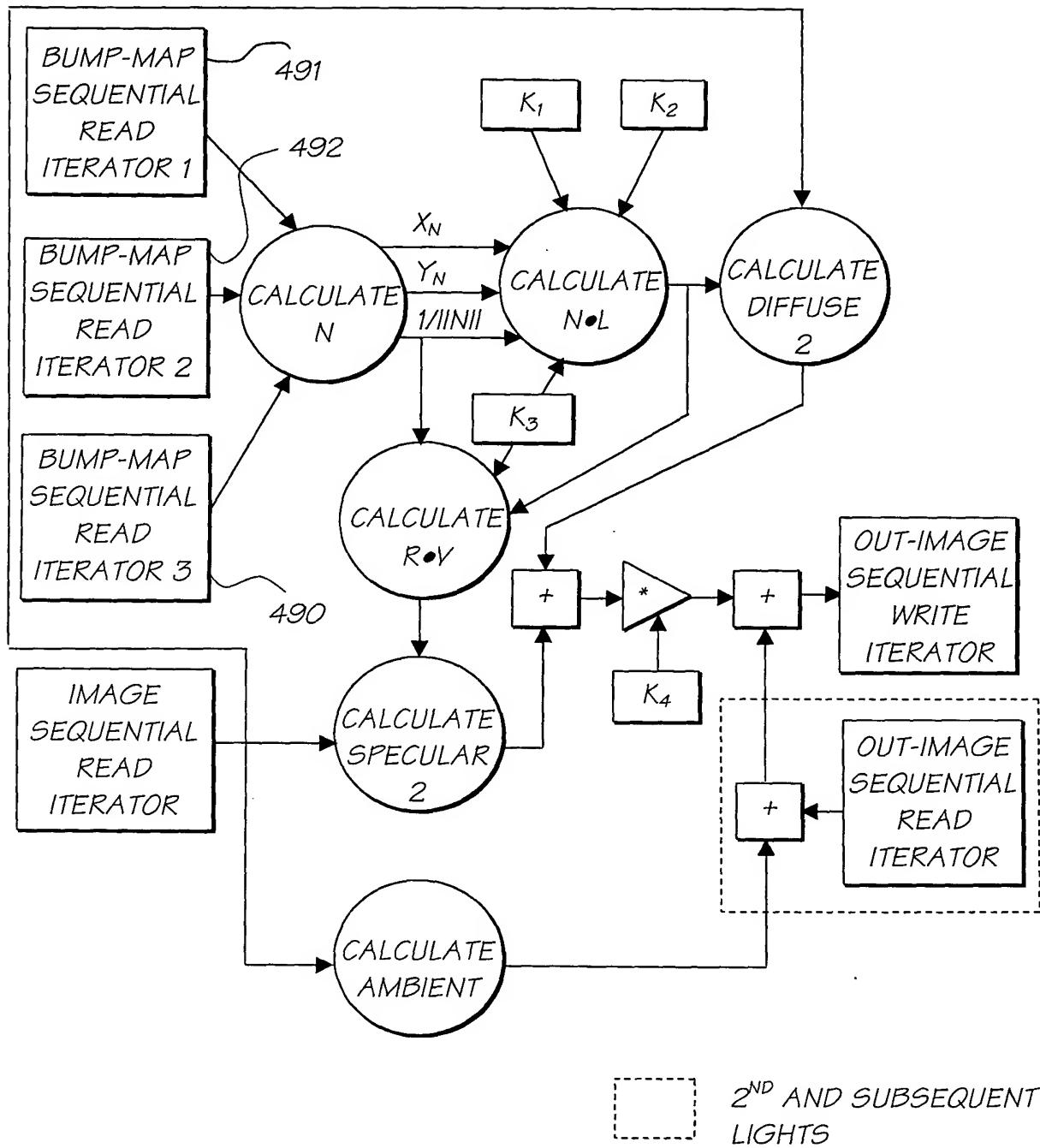


FIG. 148

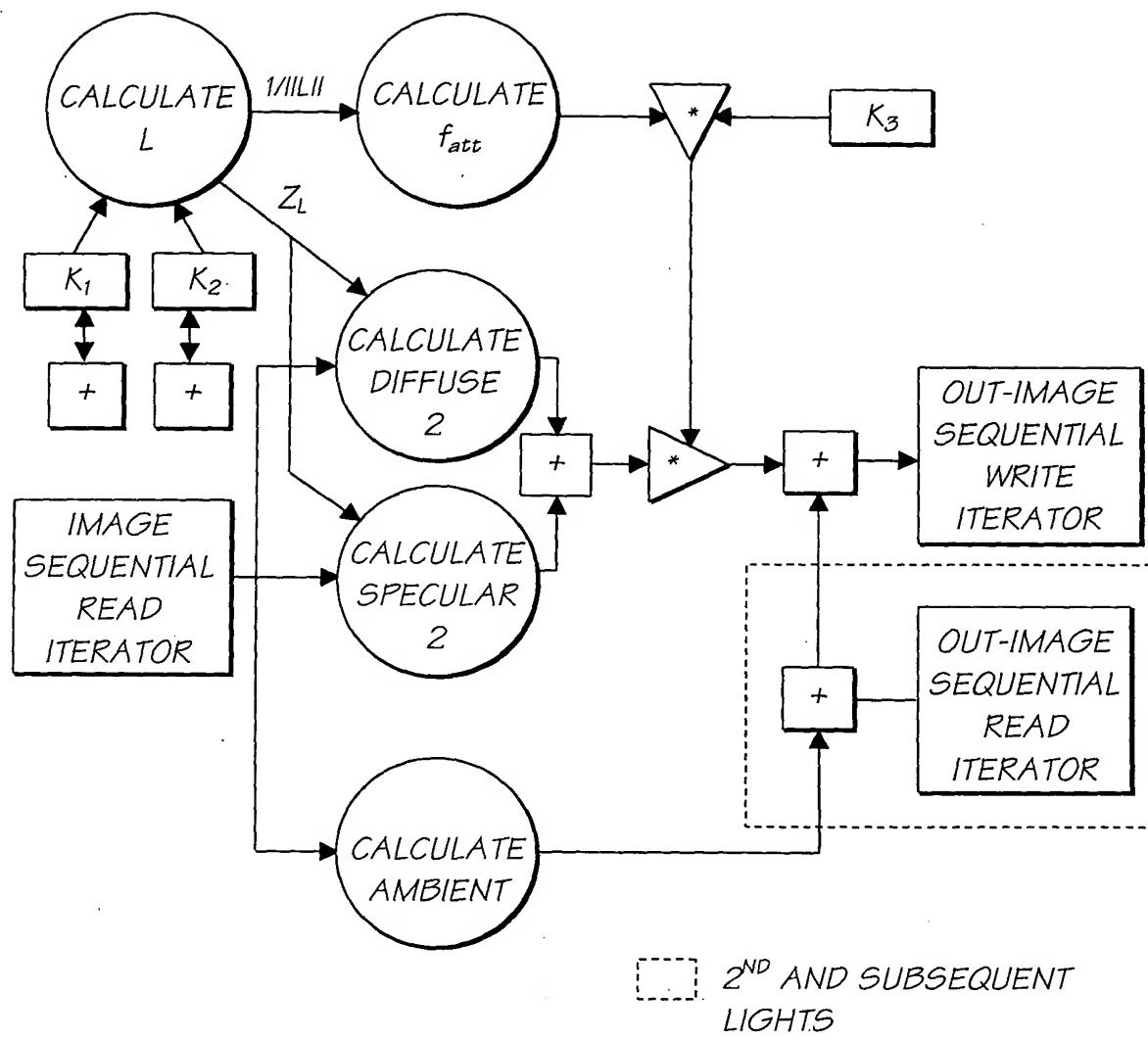


FIG. 149

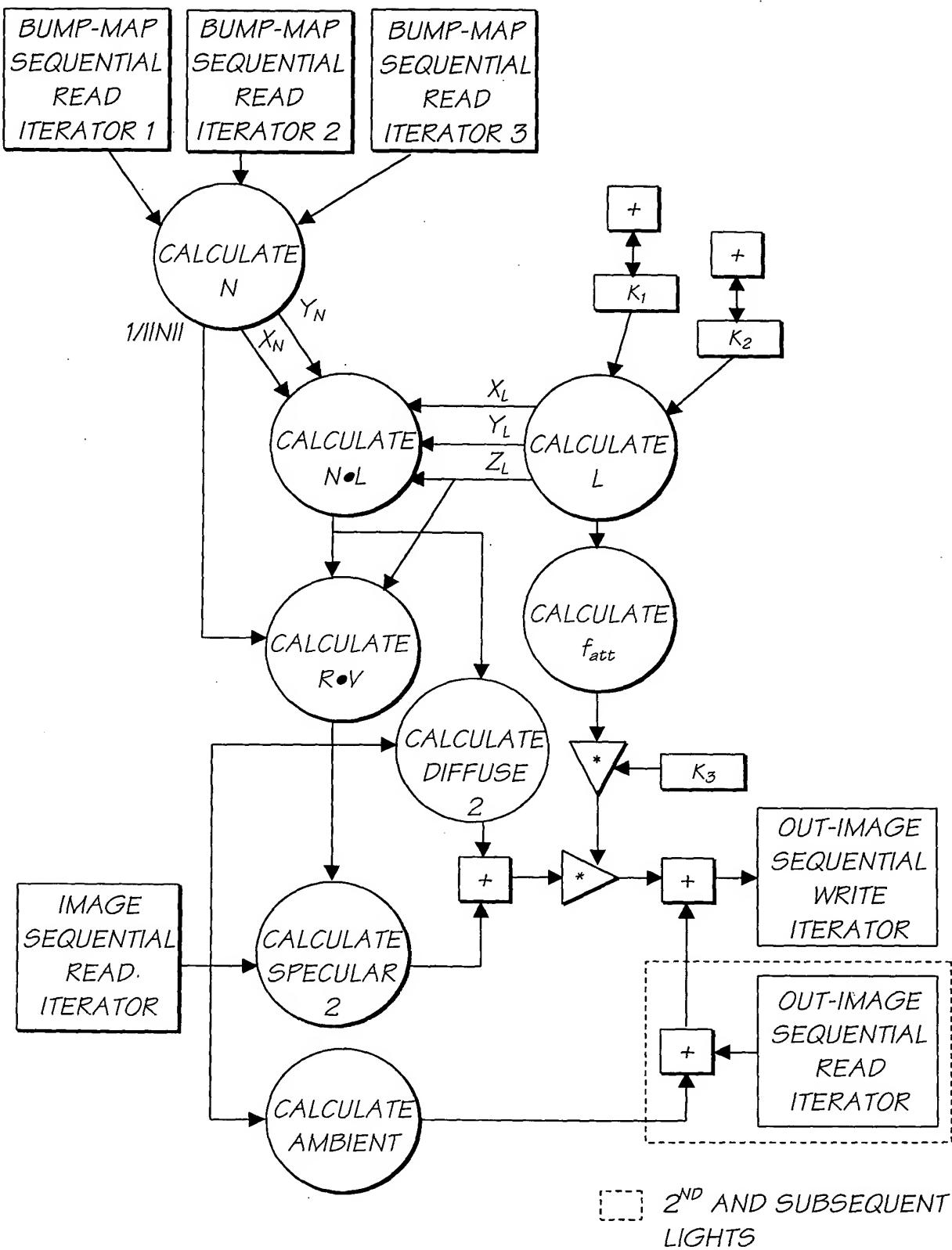


FIG. 150

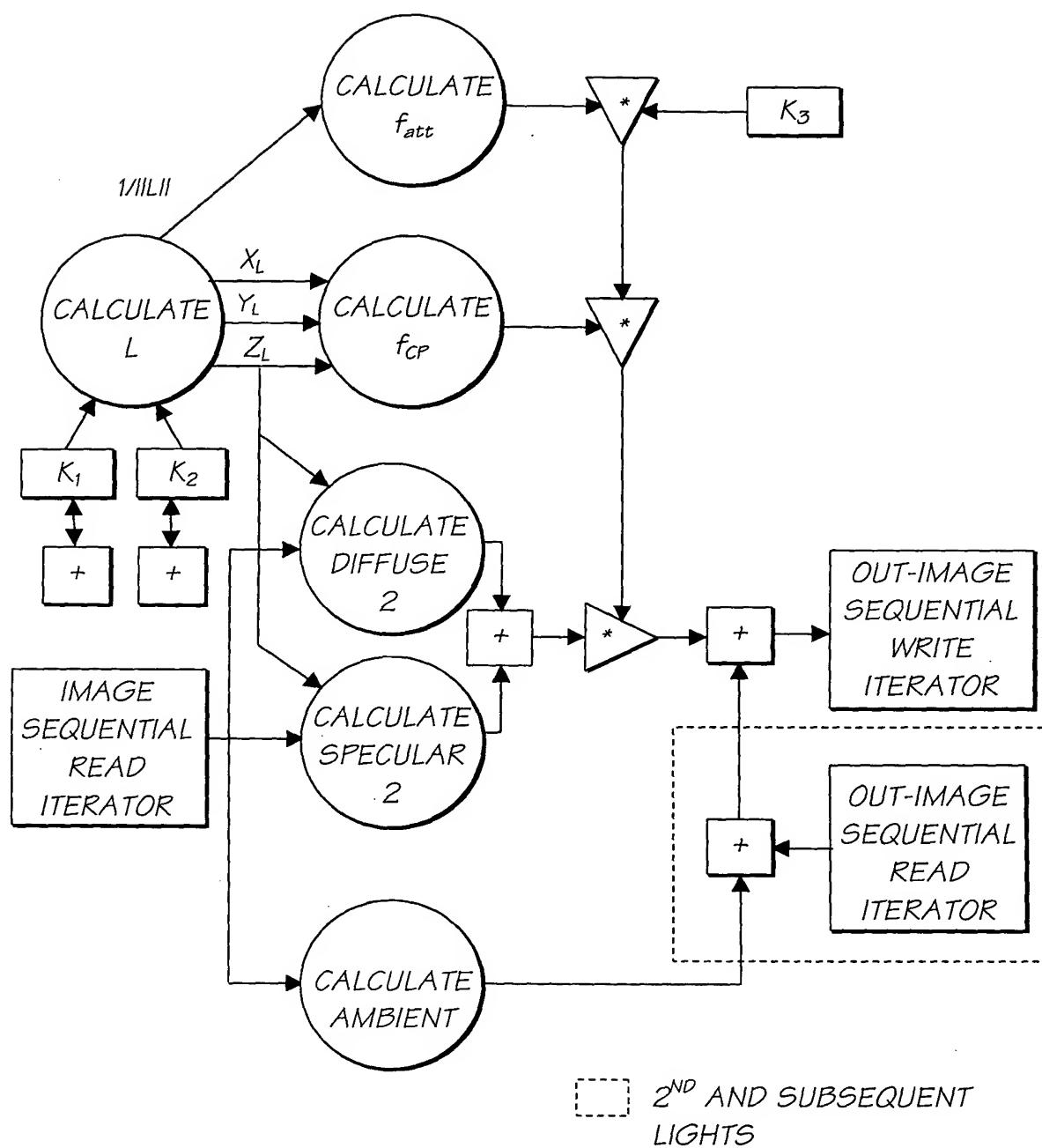


FIG. 151

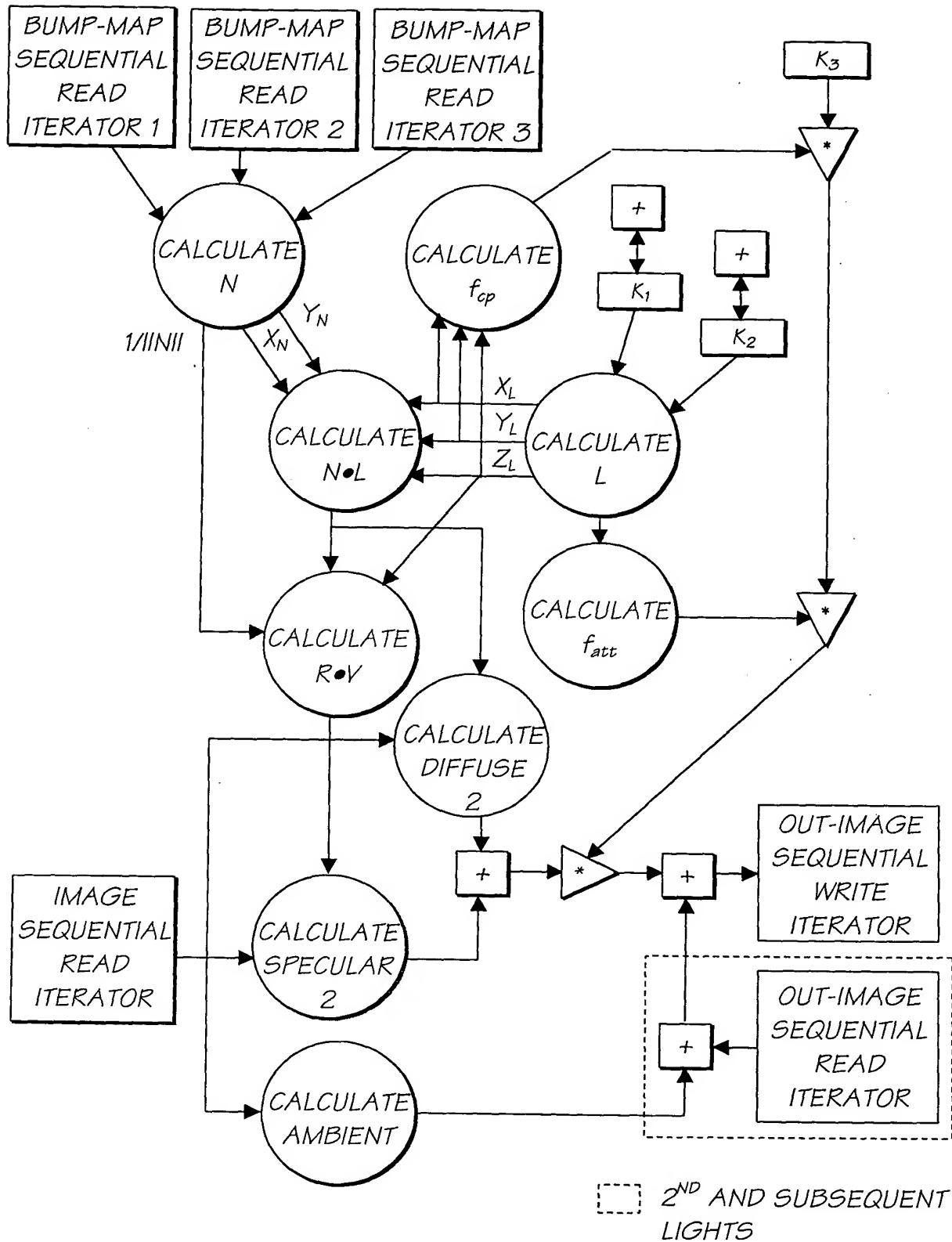
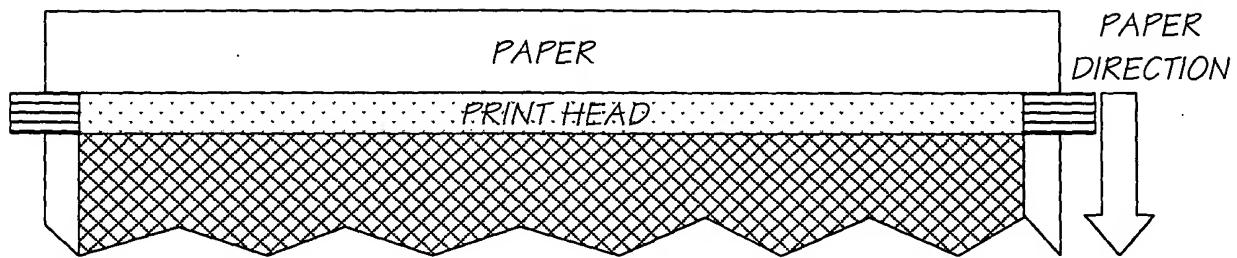


FIG. 152



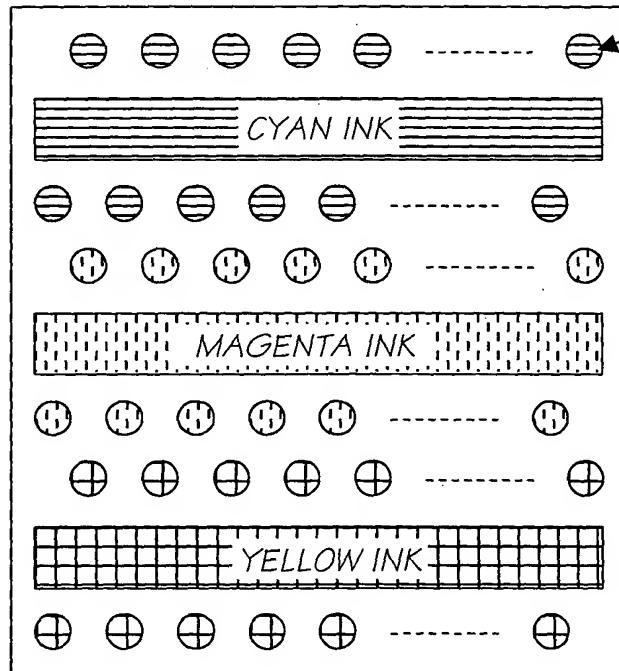
8 PRINT HEAD SEGMENTS IN PRINT HEAD

SEGMENT 0	SEGMENT 1	SEGMENT 2	SEGMENT 3	SEGMENT 4	SEGMENT 5	SEGMENT 6	SEGMENT 7
-----------	-----------	-----------	-----------	-----------	-----------	-----------	-----------

1250  $\mu\text{m}$  (375 DOTS PER SEGMENT ROW,  
OR 750 DOTS PER SEGMENT COLOR)

1 DOT IS 16.6  $\mu\text{m}$  IN  
DIAMETER

(A 100  $\mu\text{m}$  SQUARE =  
 $6 \times 6 = 36$  DOTS)



EACH SEGMENT CONTAINS 6 ROWS OF DOTS:  
ODD AND EVEN CYAN, MAGENTA, AND YELLOW.

FIG. 153

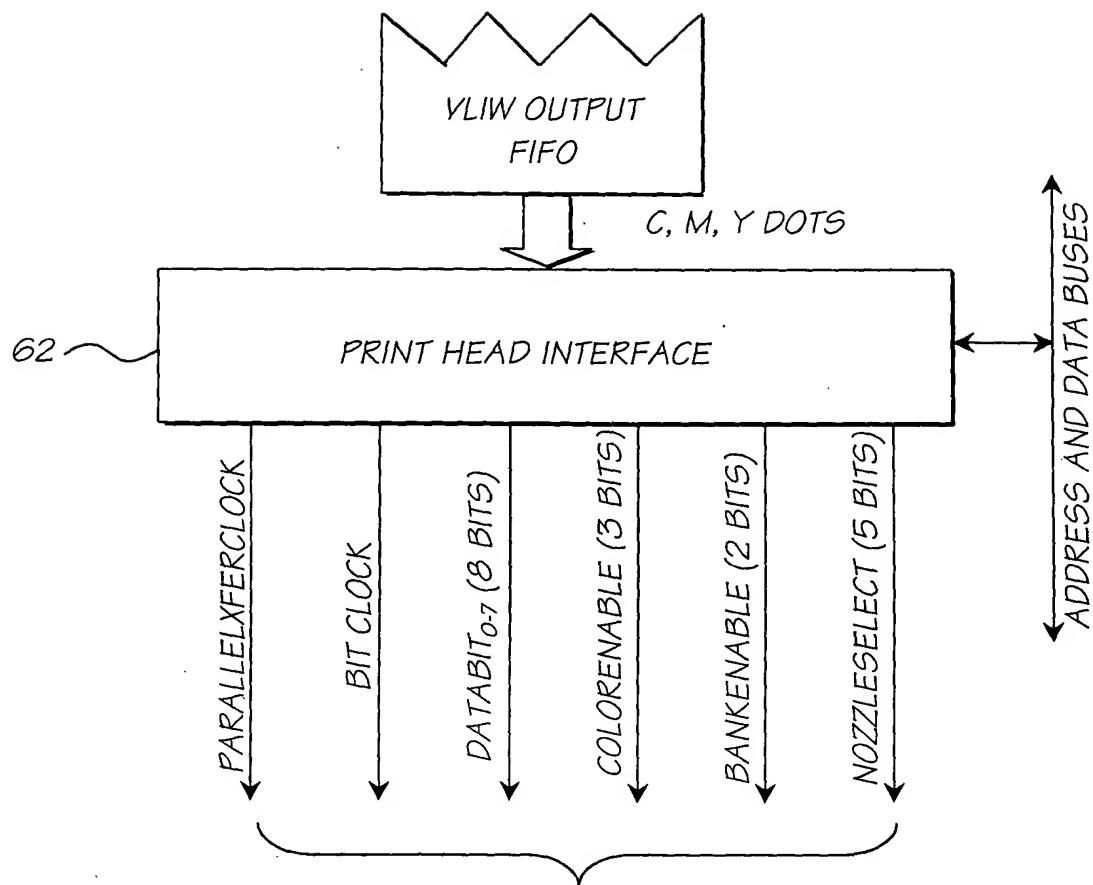
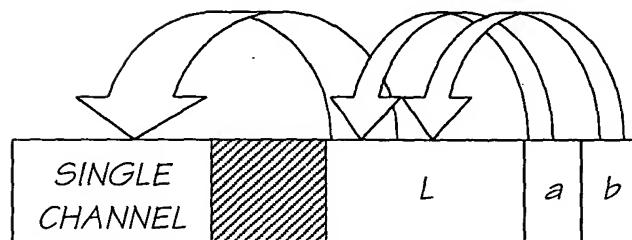


FIG. 154



BECOMES:



FIG. 155

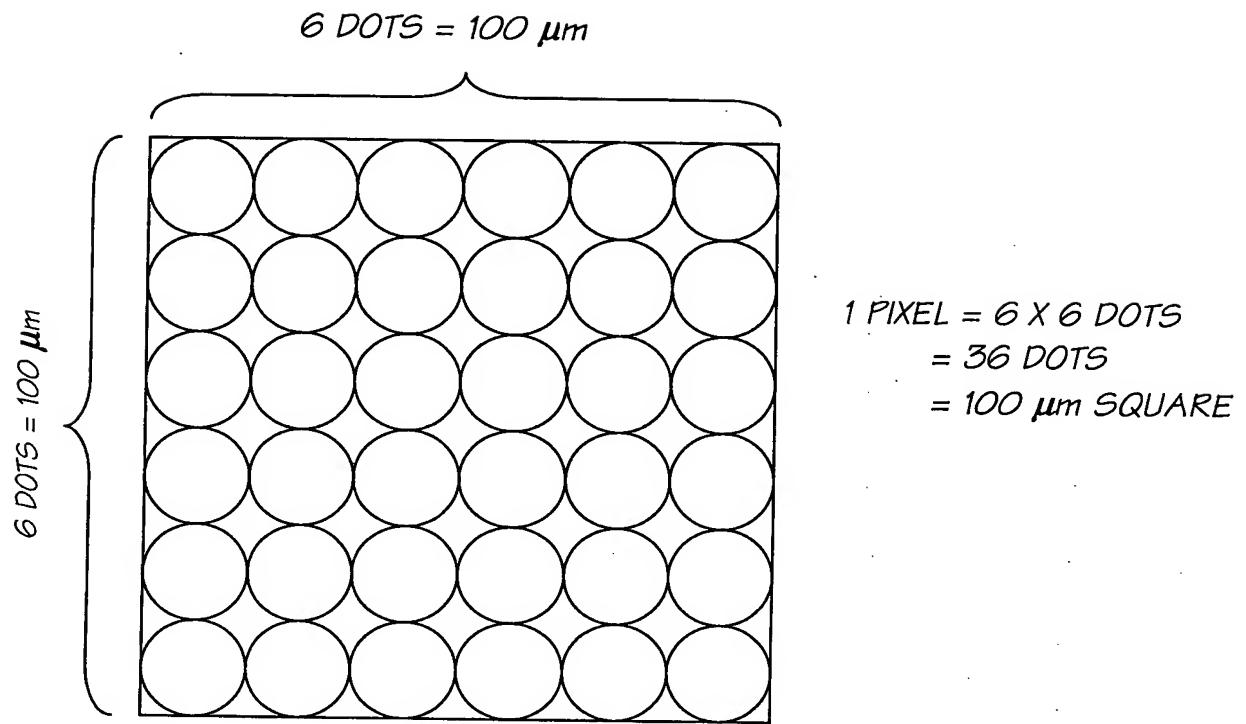


FIG. 156

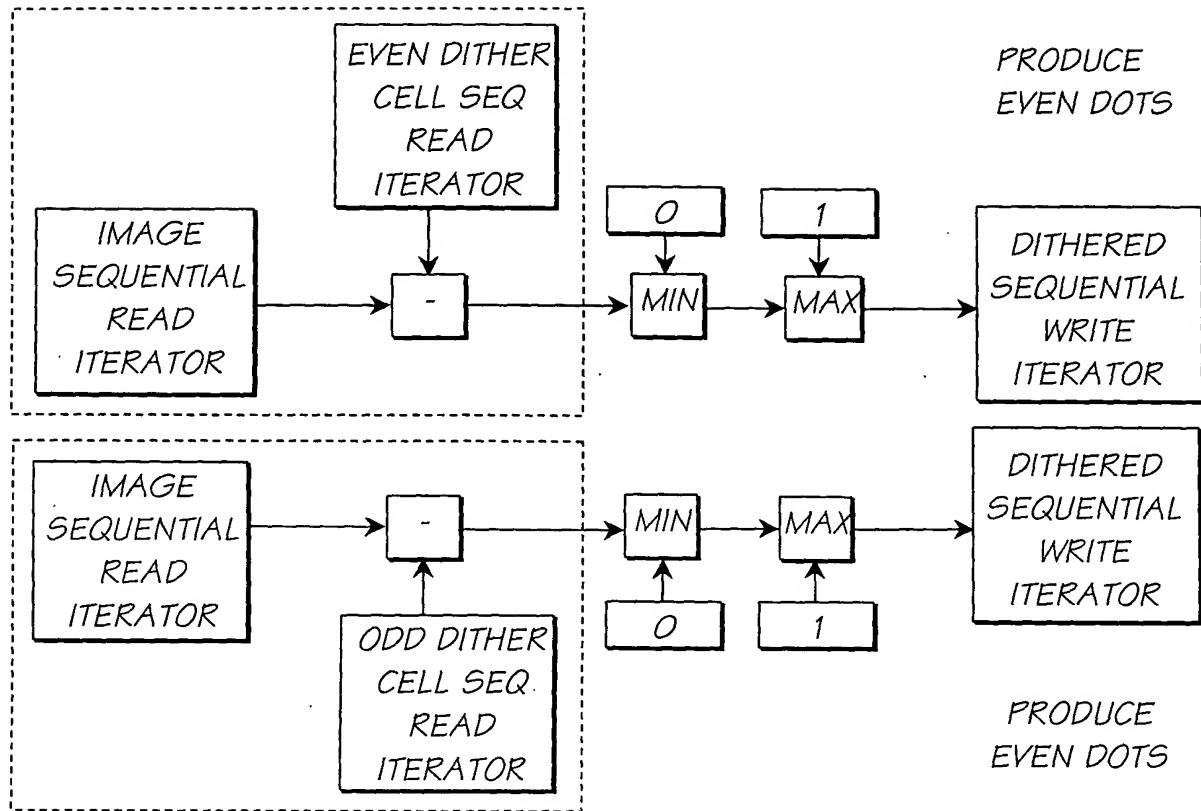


FIG. 157

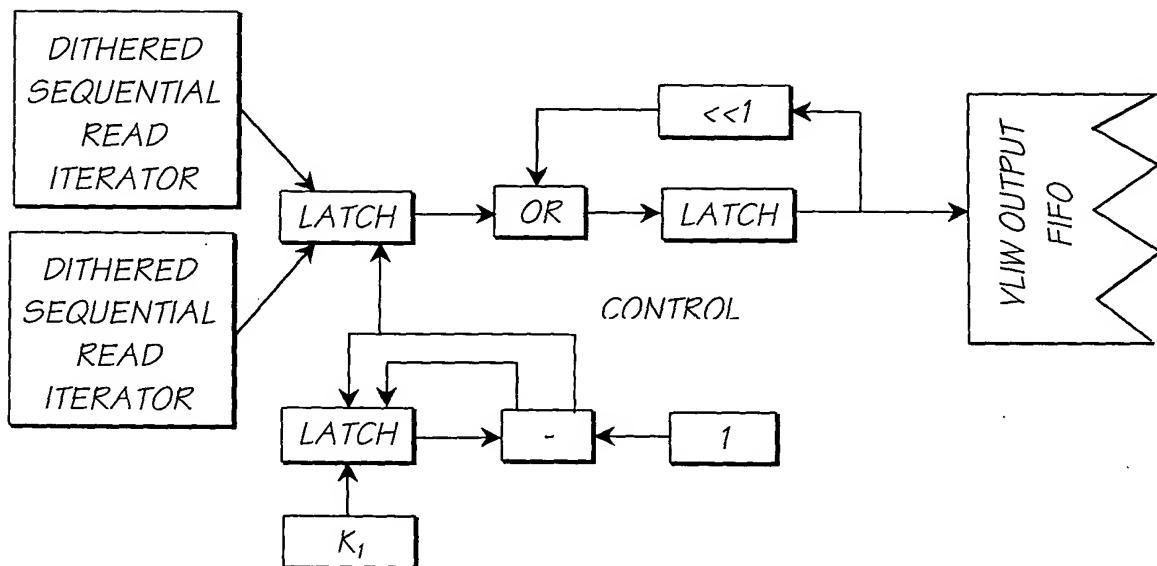


FIG. 158

FIG. 159

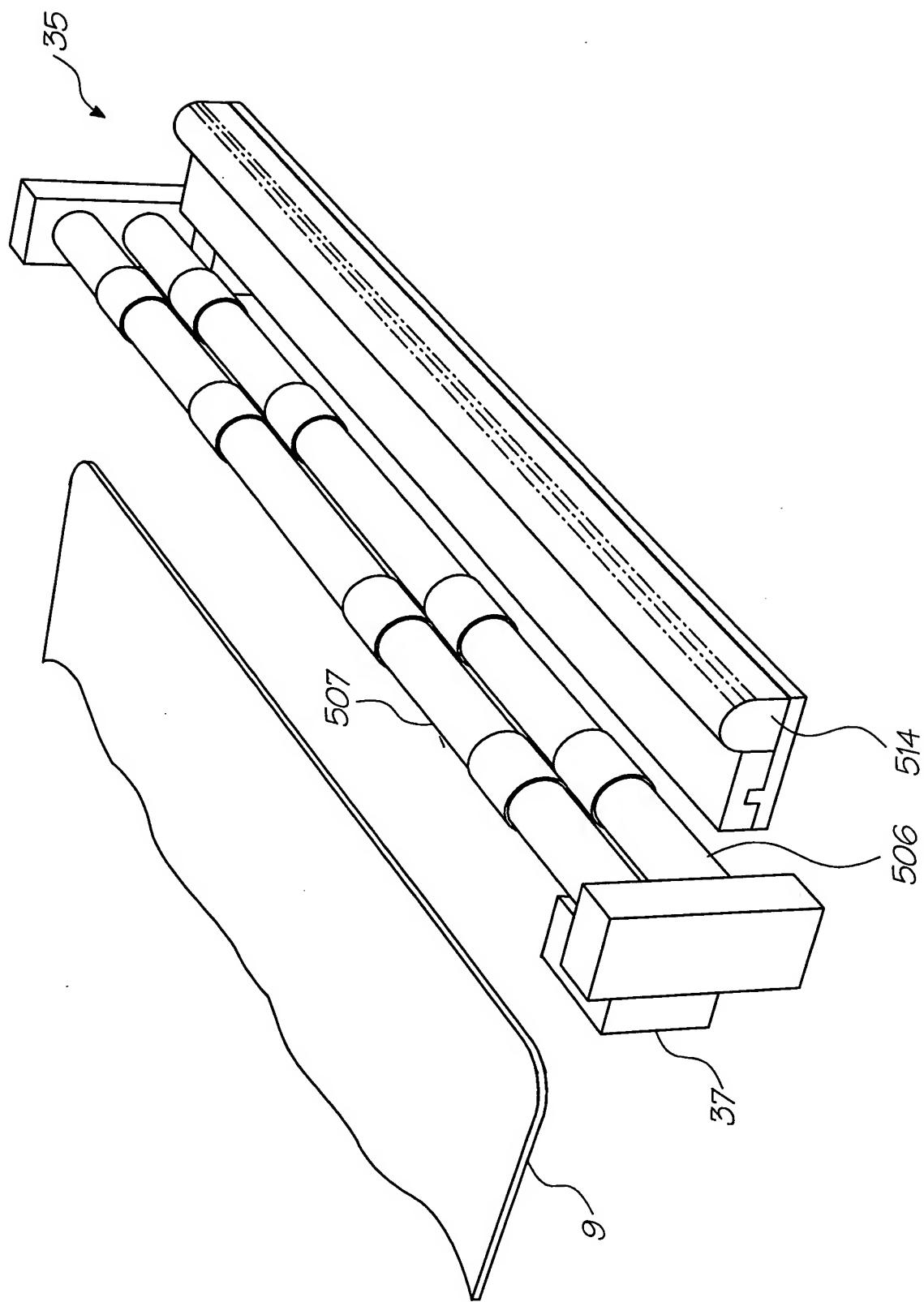
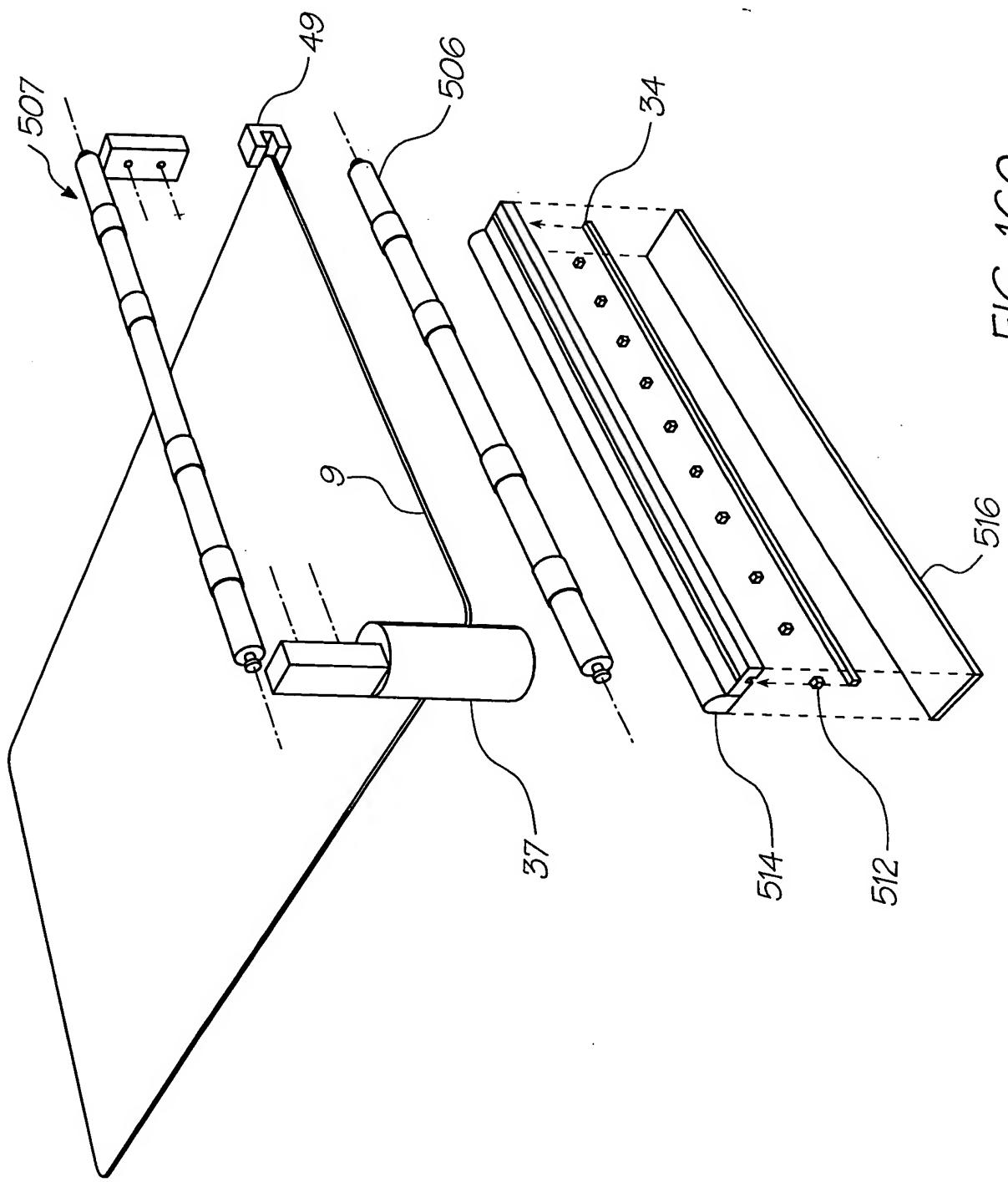


FIG. 160



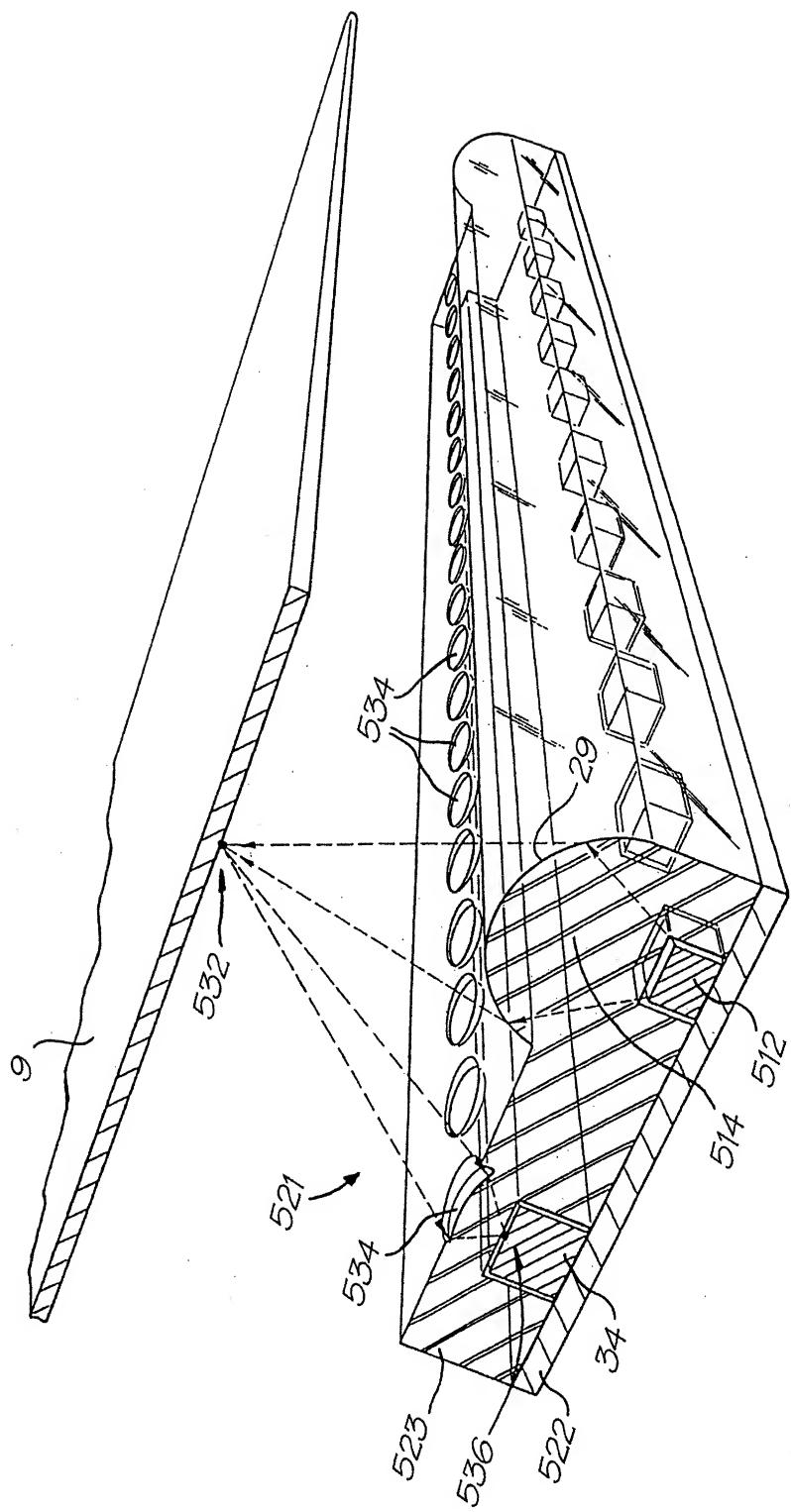


FIG. 161

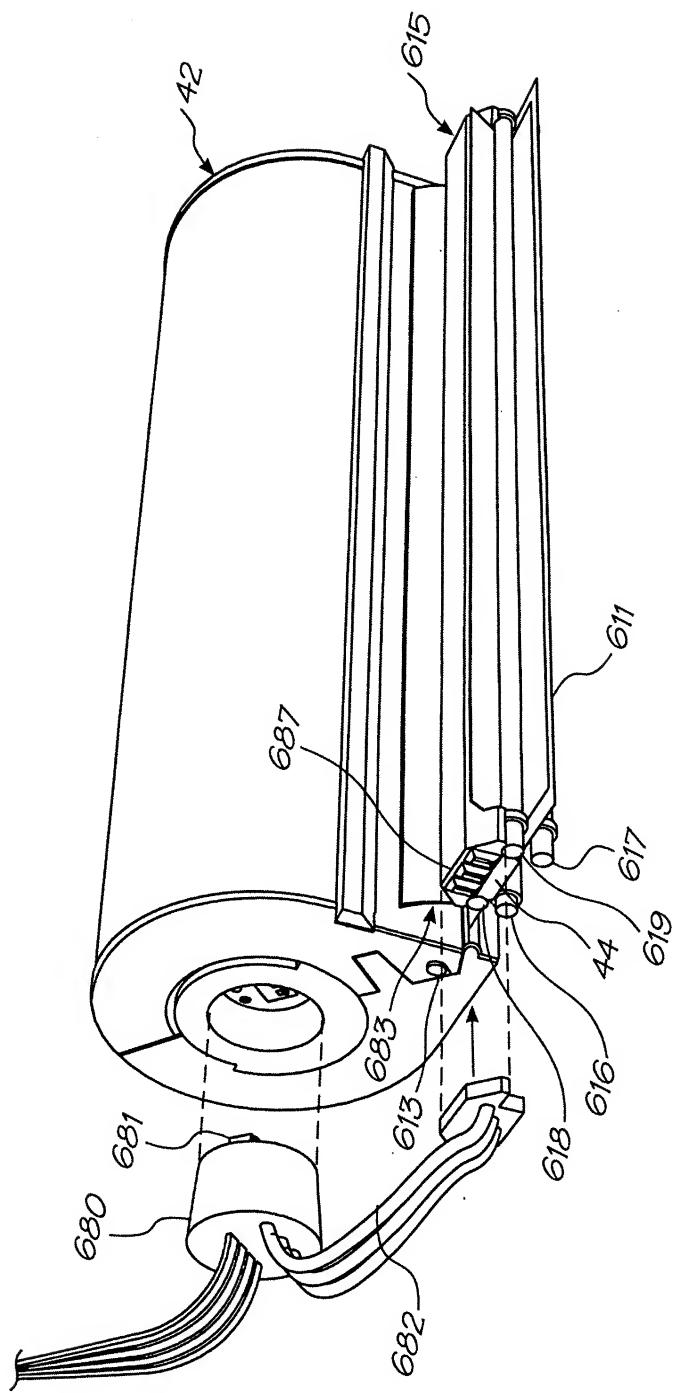


FIG. 162

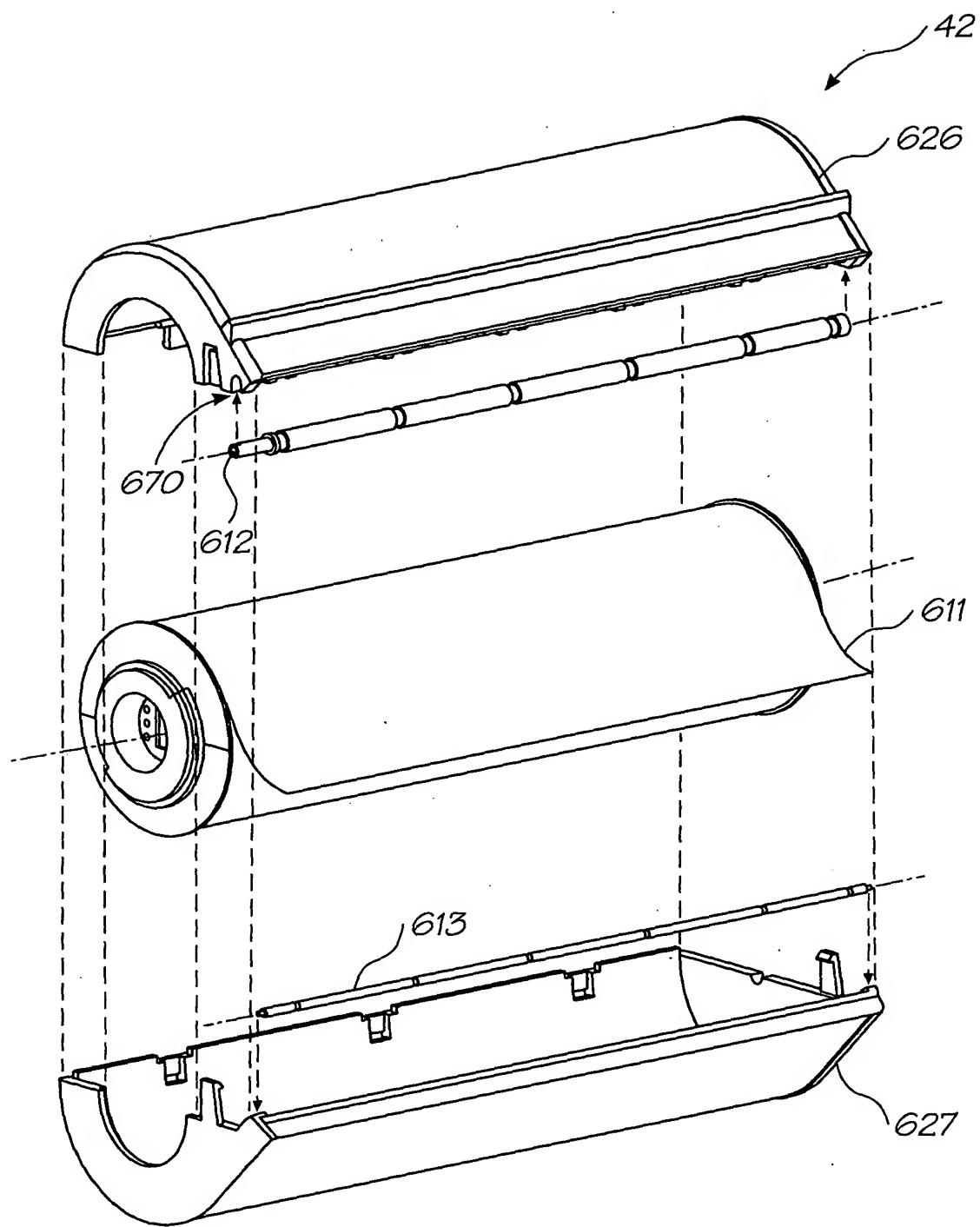


FIG. 163

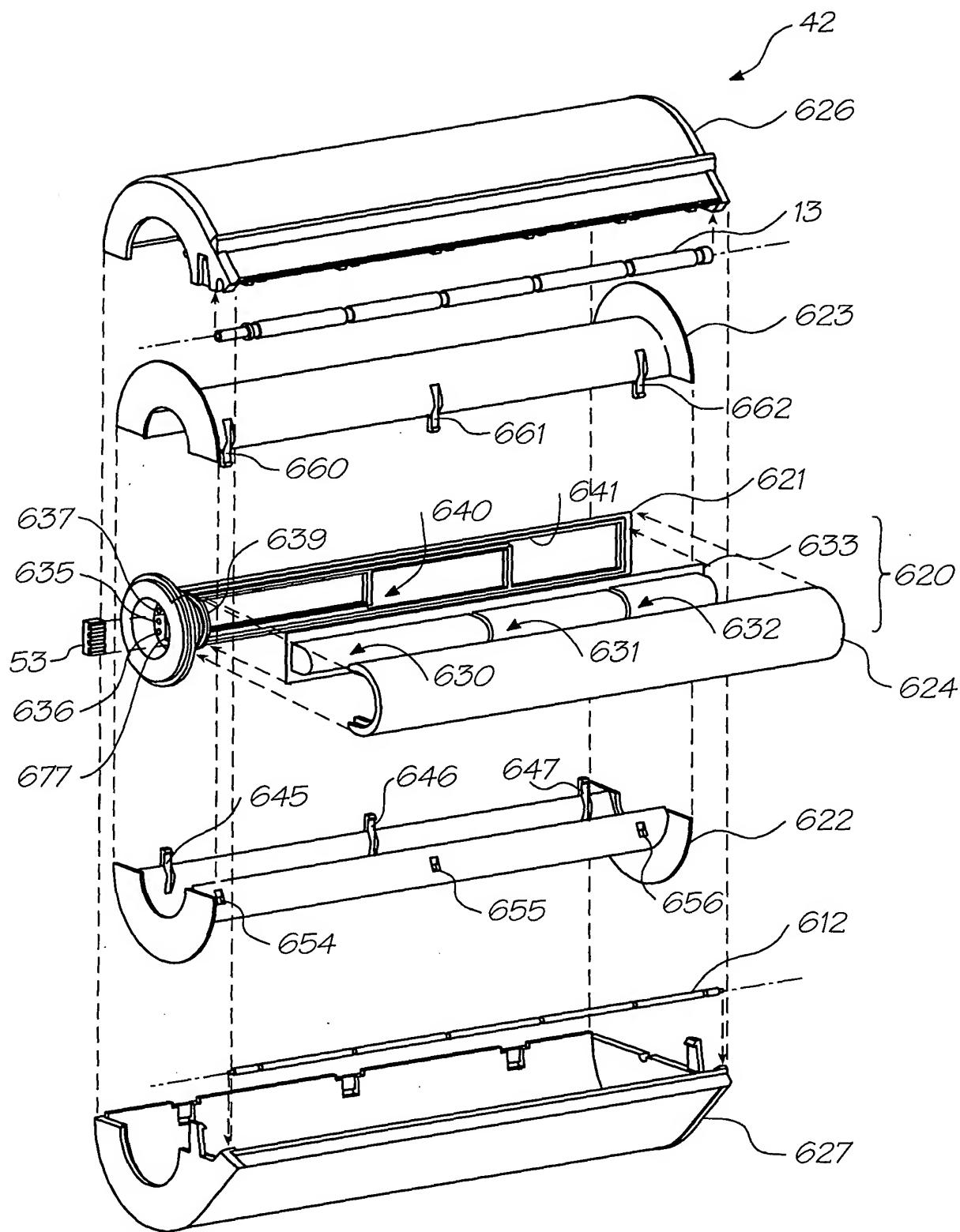


FIG. 164

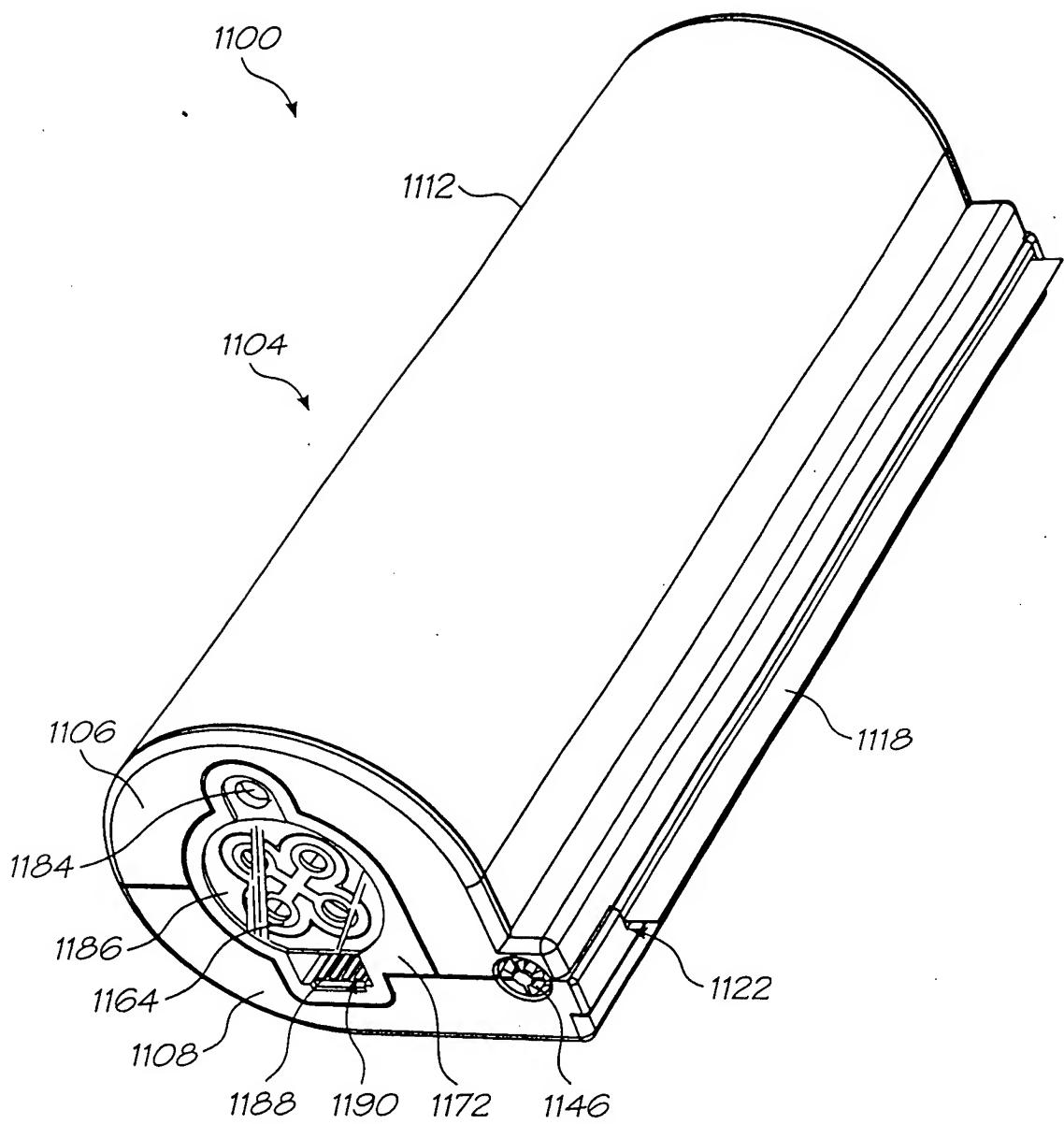


FIG. 164A

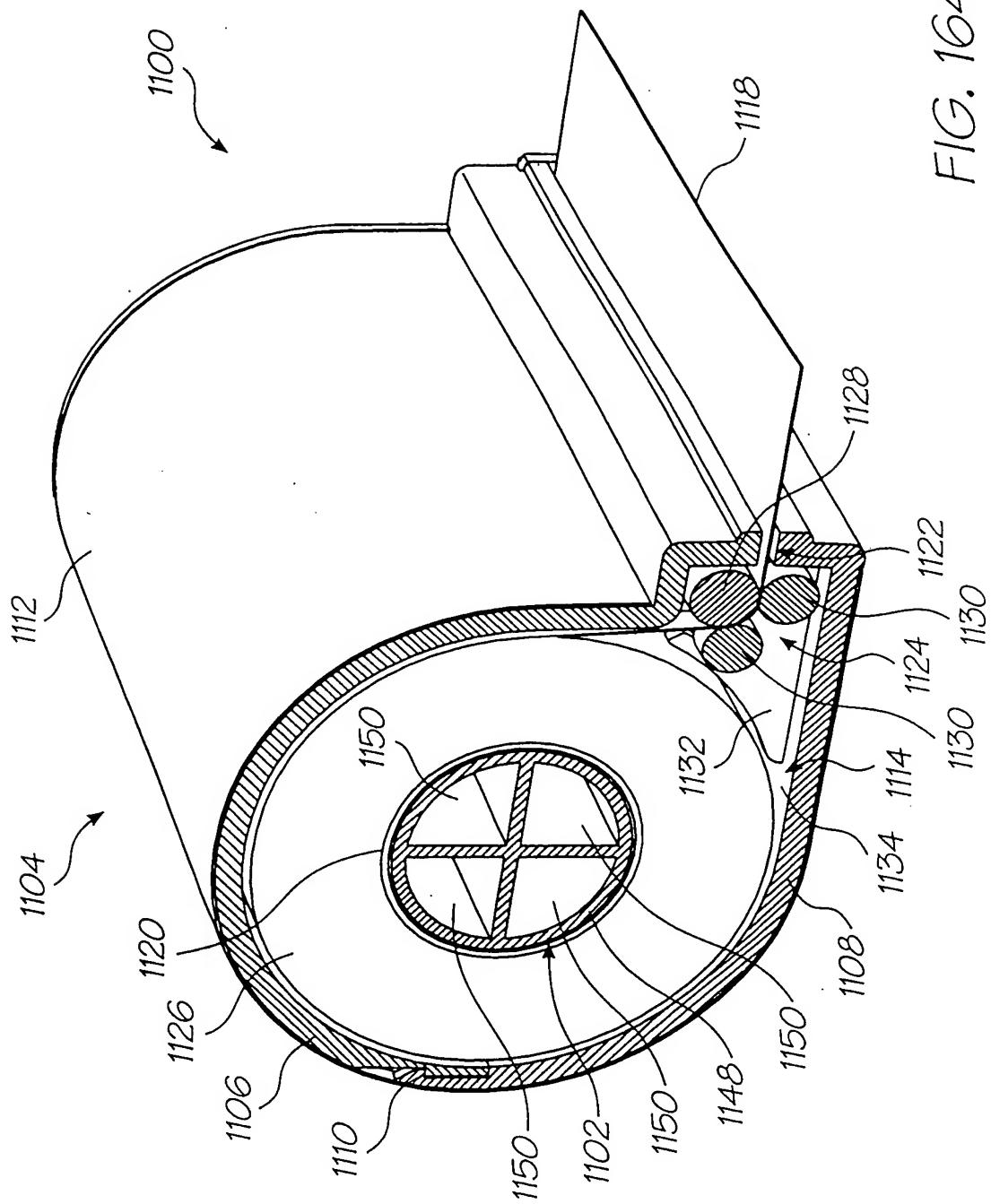


FIG. 164B

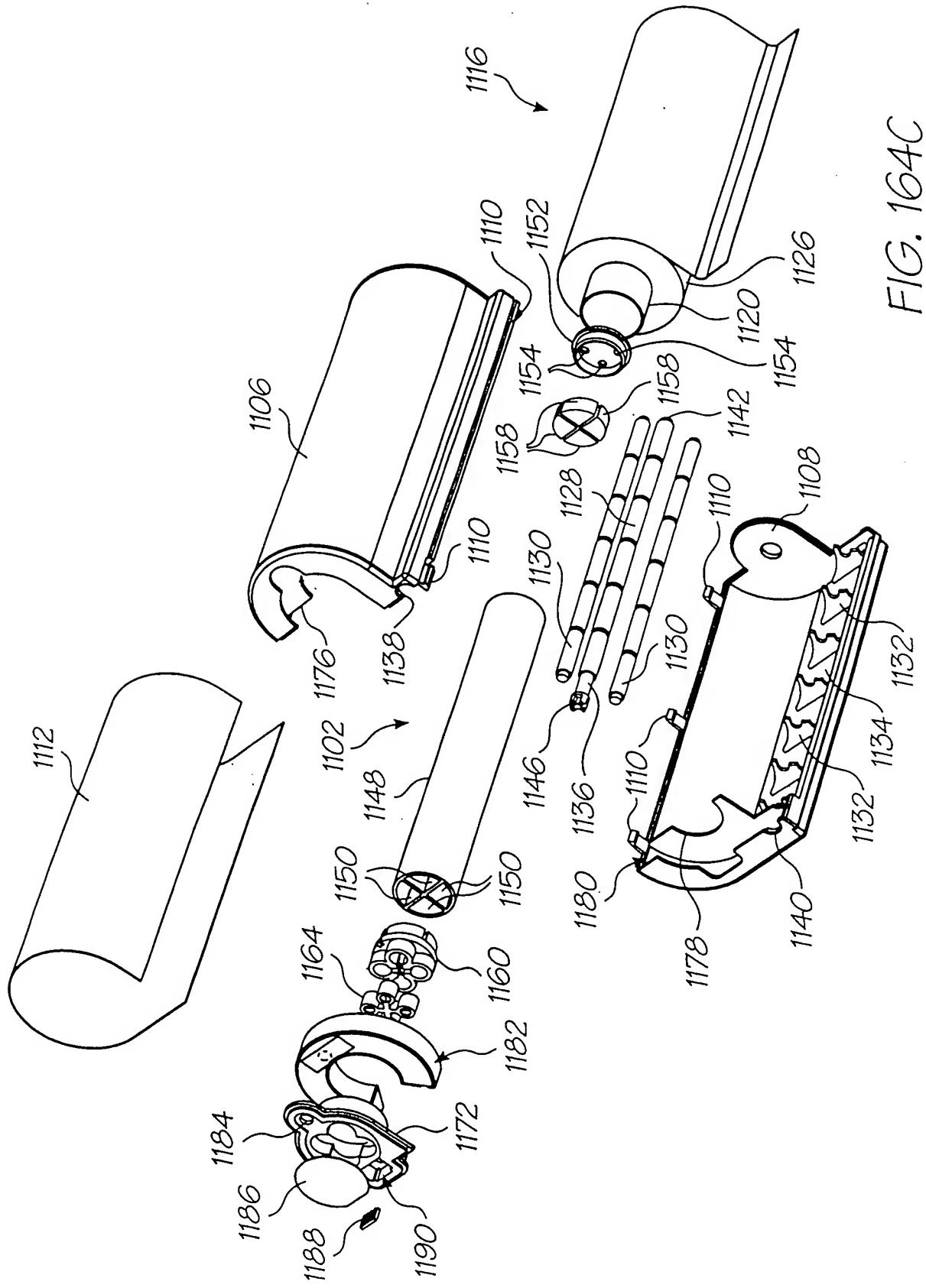


FIG. 164C

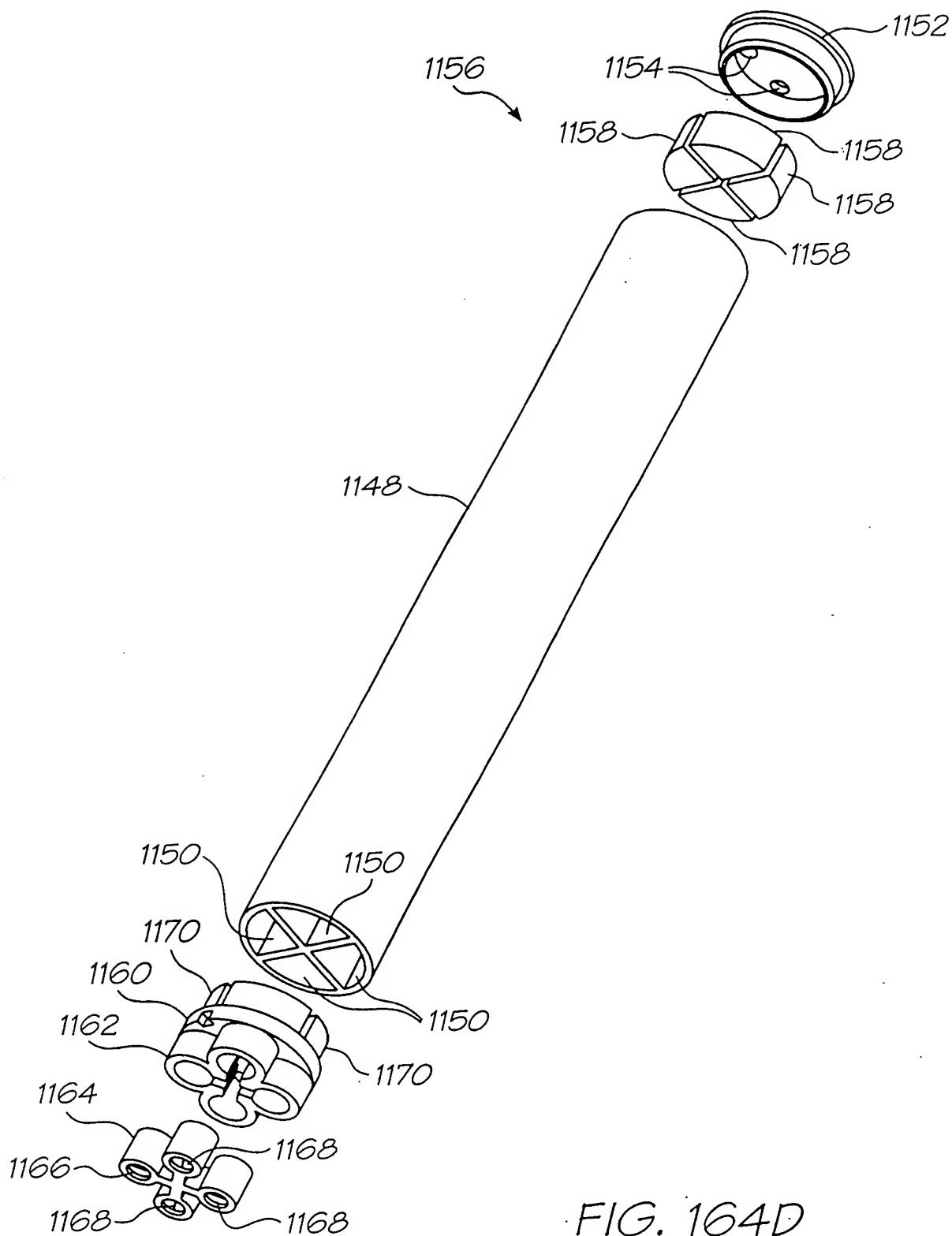


FIG. 164D

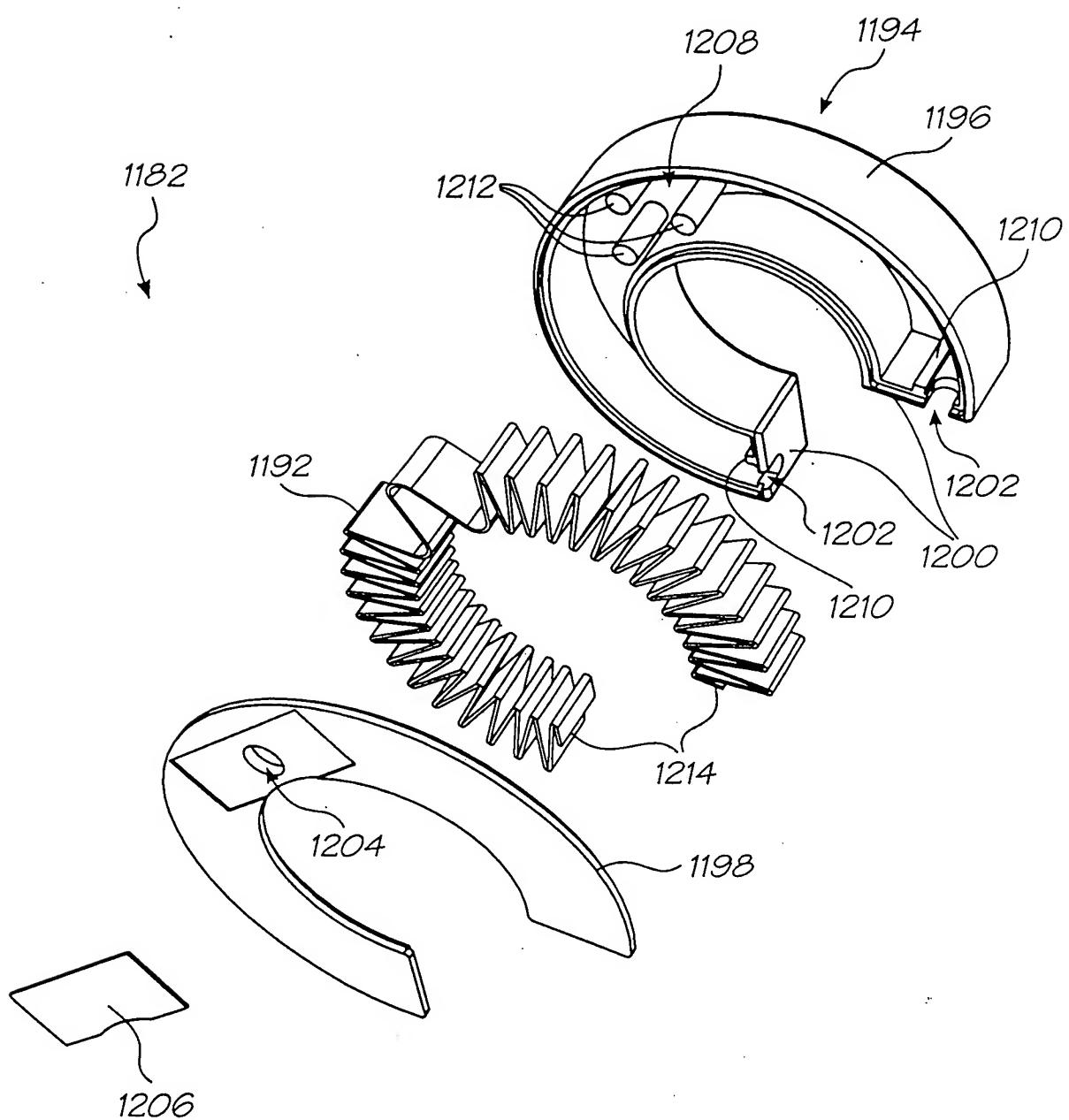


FIG. 164E

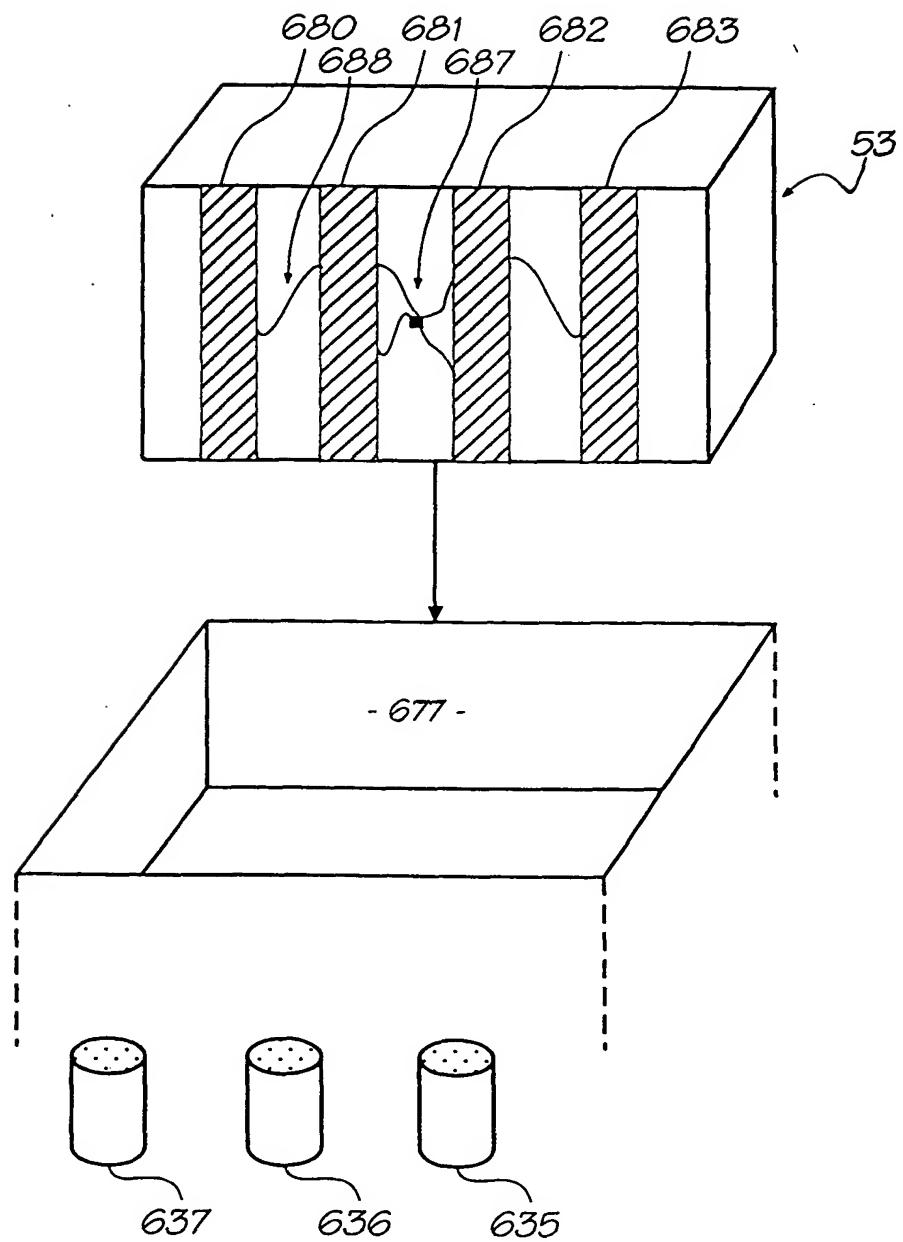


FIG. 165

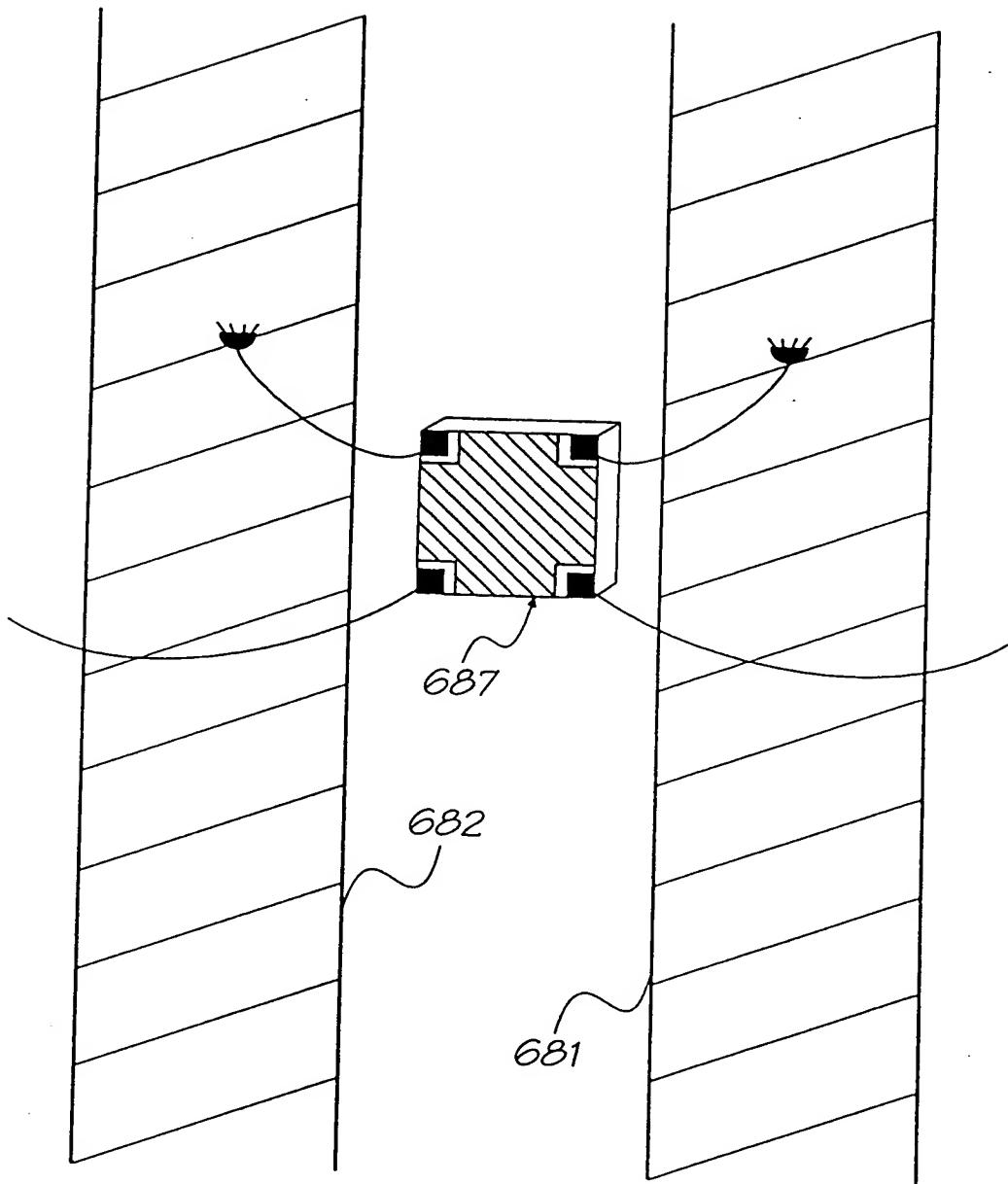


FIG. 166

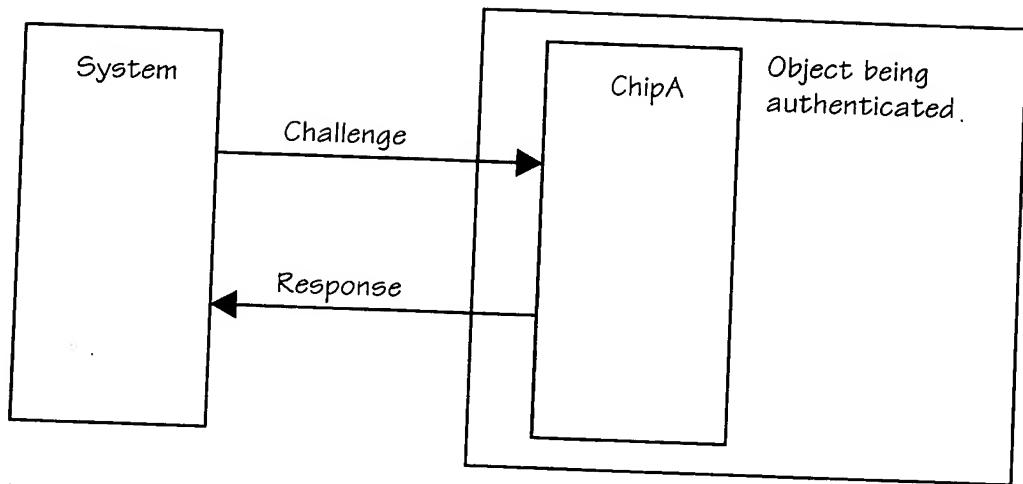


FIG. 167

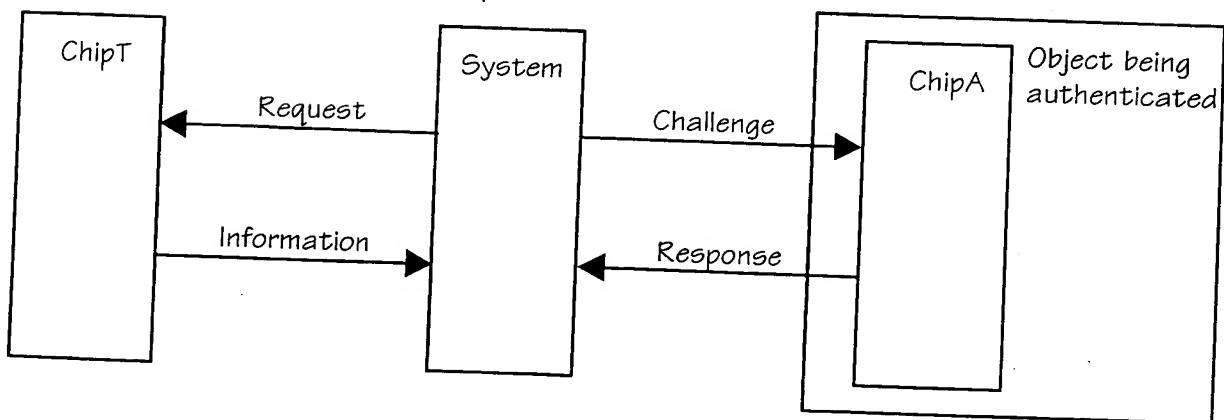


FIG. 168

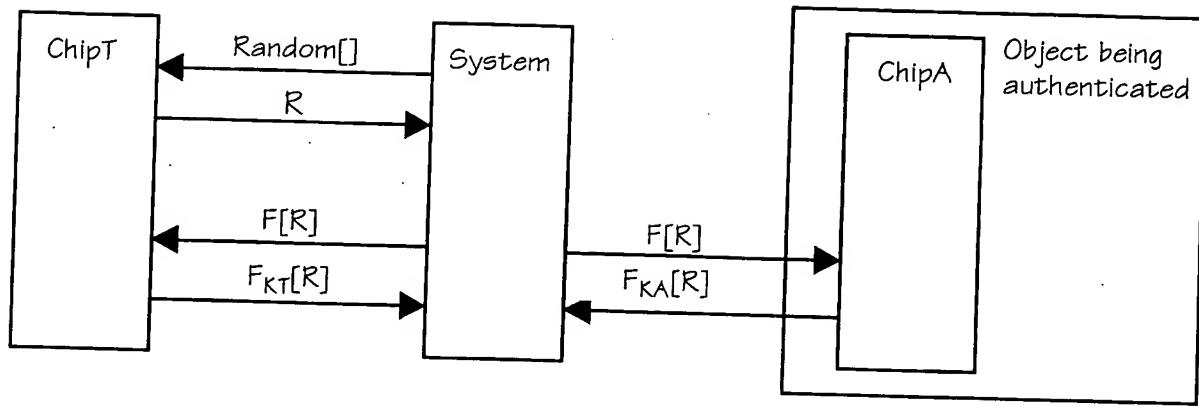


FIG. 169

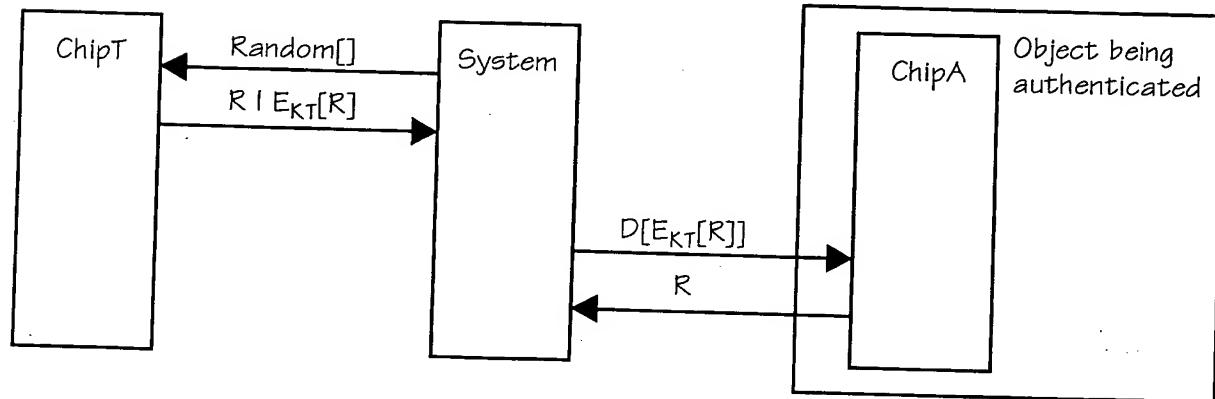


FIG. 170

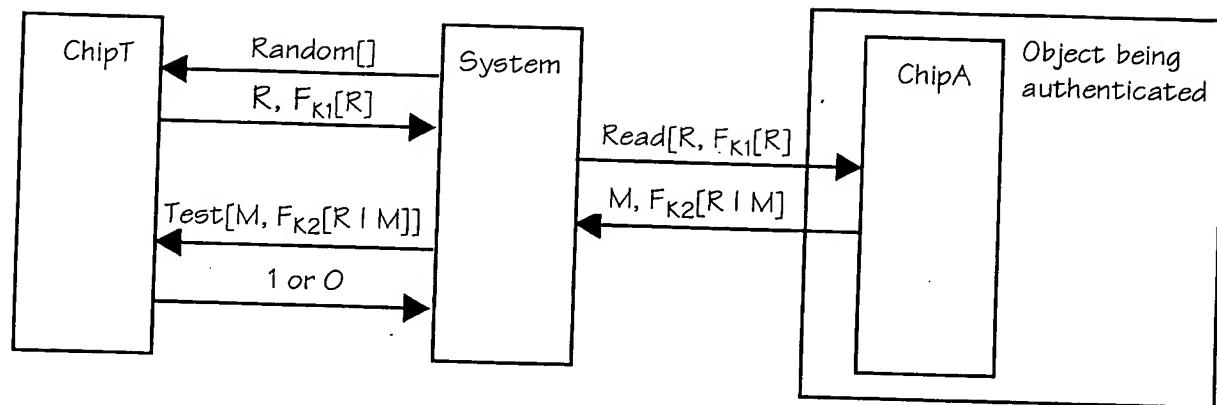


FIG. 171

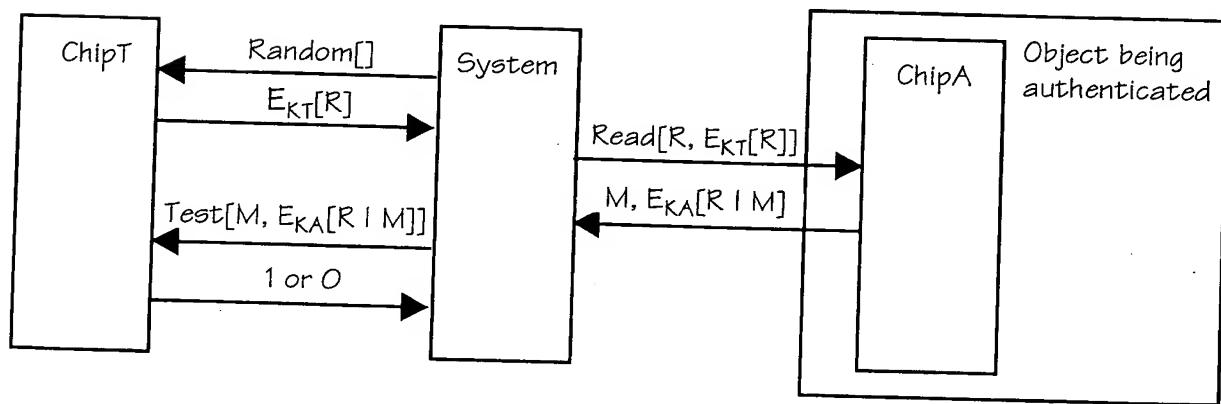


FIG. 172

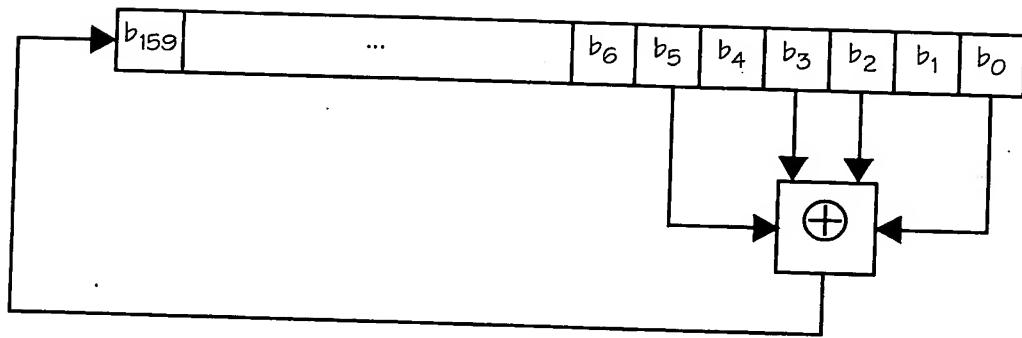


FIG. 173

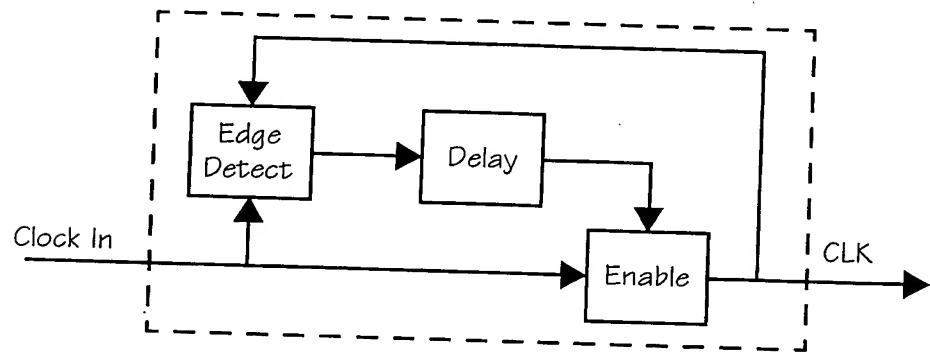


FIG. 174

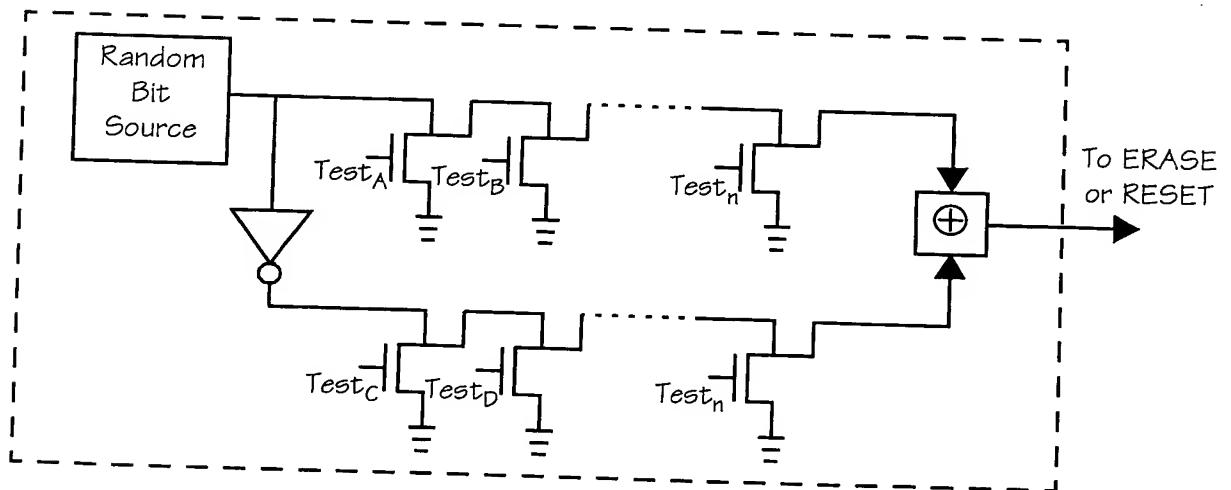


FIG. 175

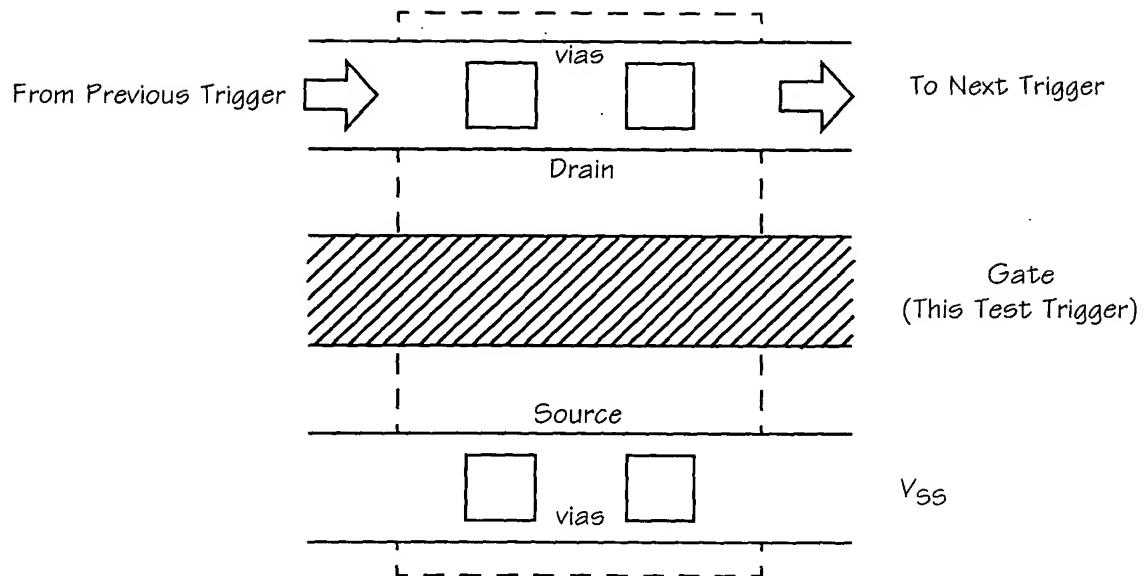


FIG. 176

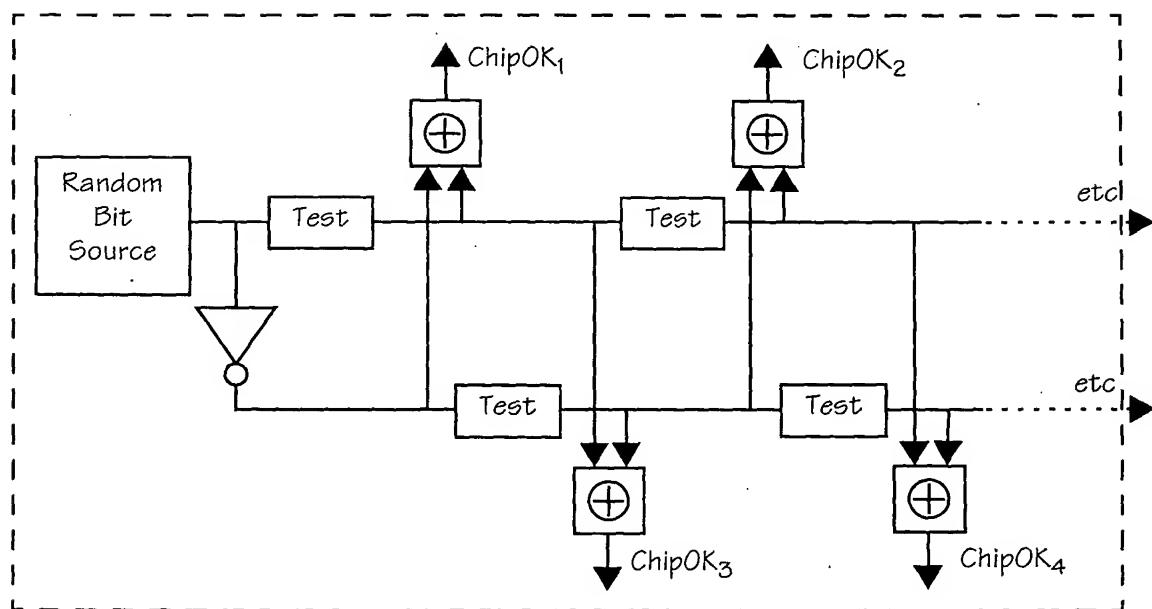


FIG. 177

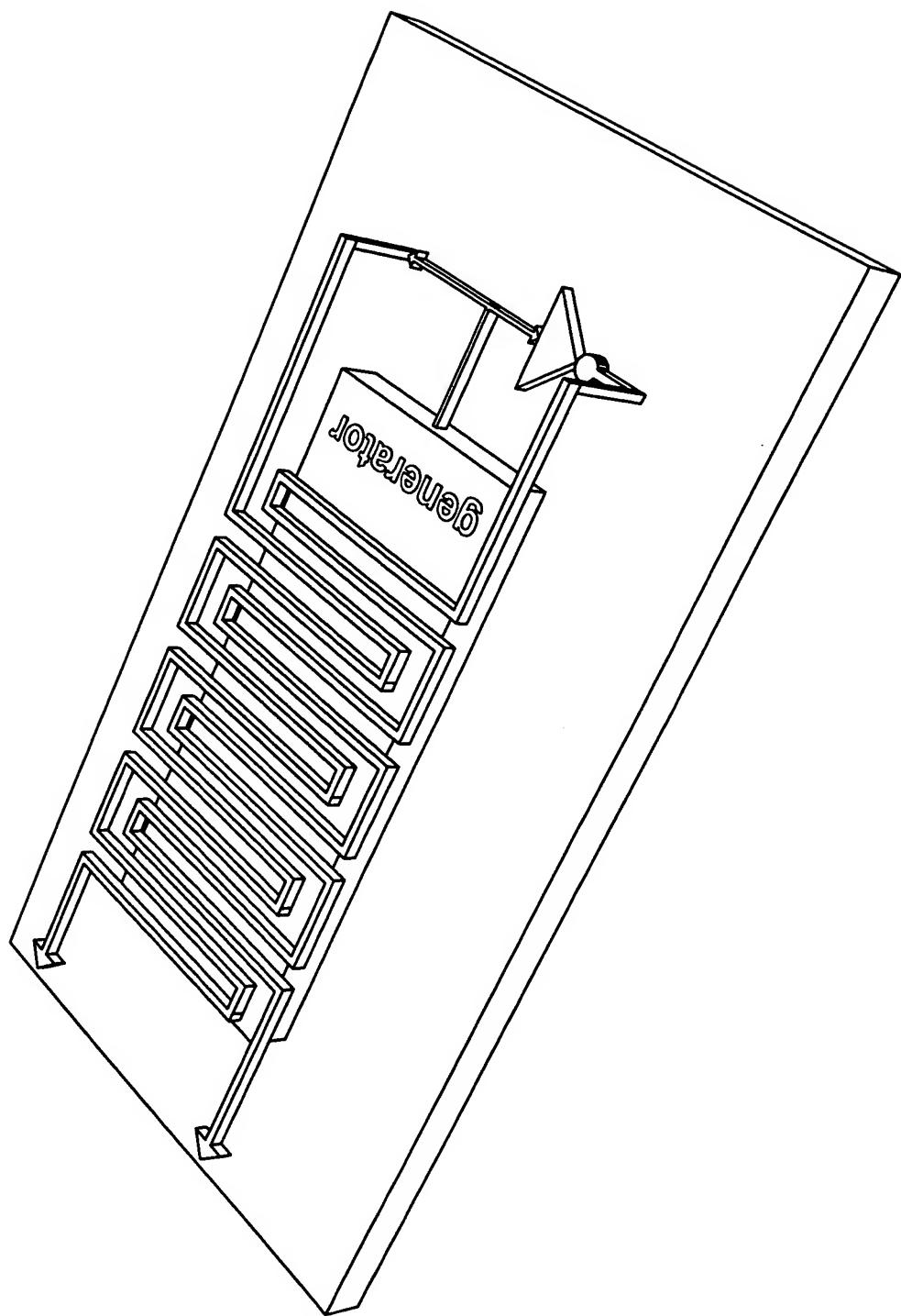


FIG. 178

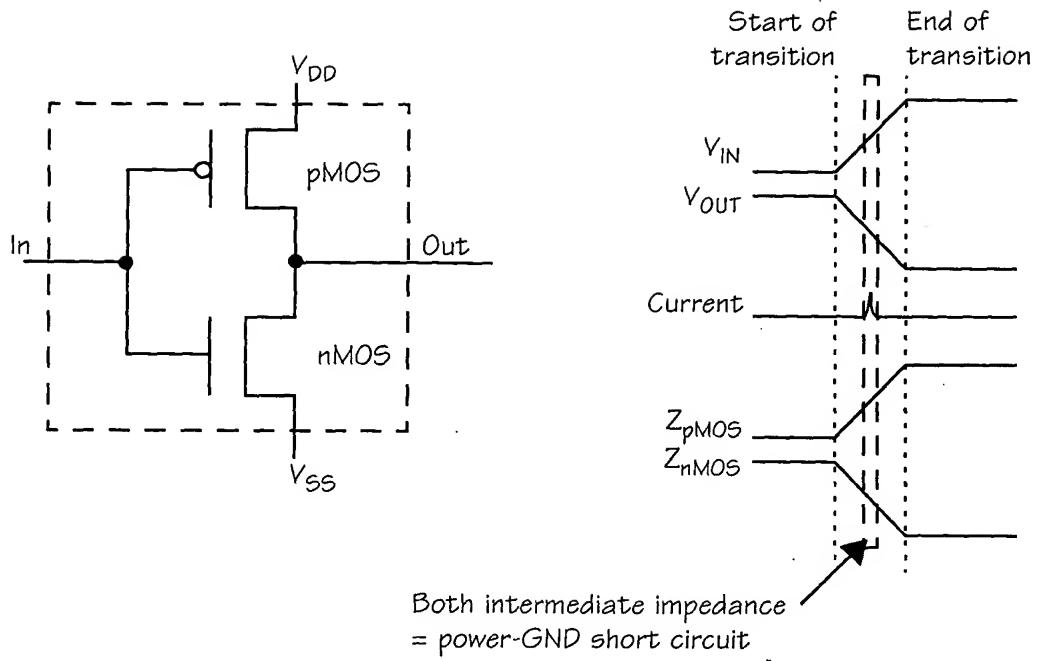


FIG. 179

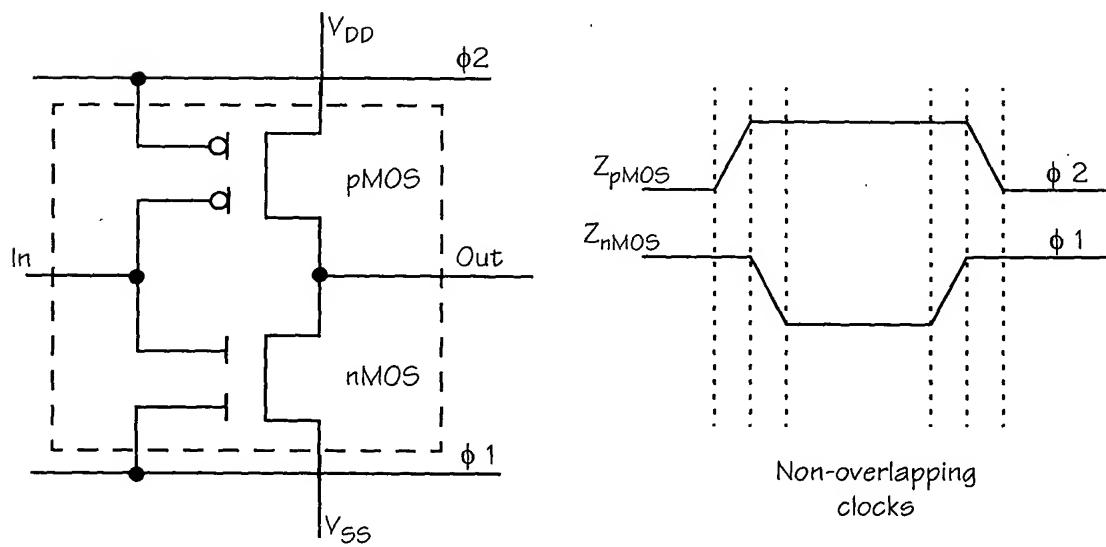


FIG. 180

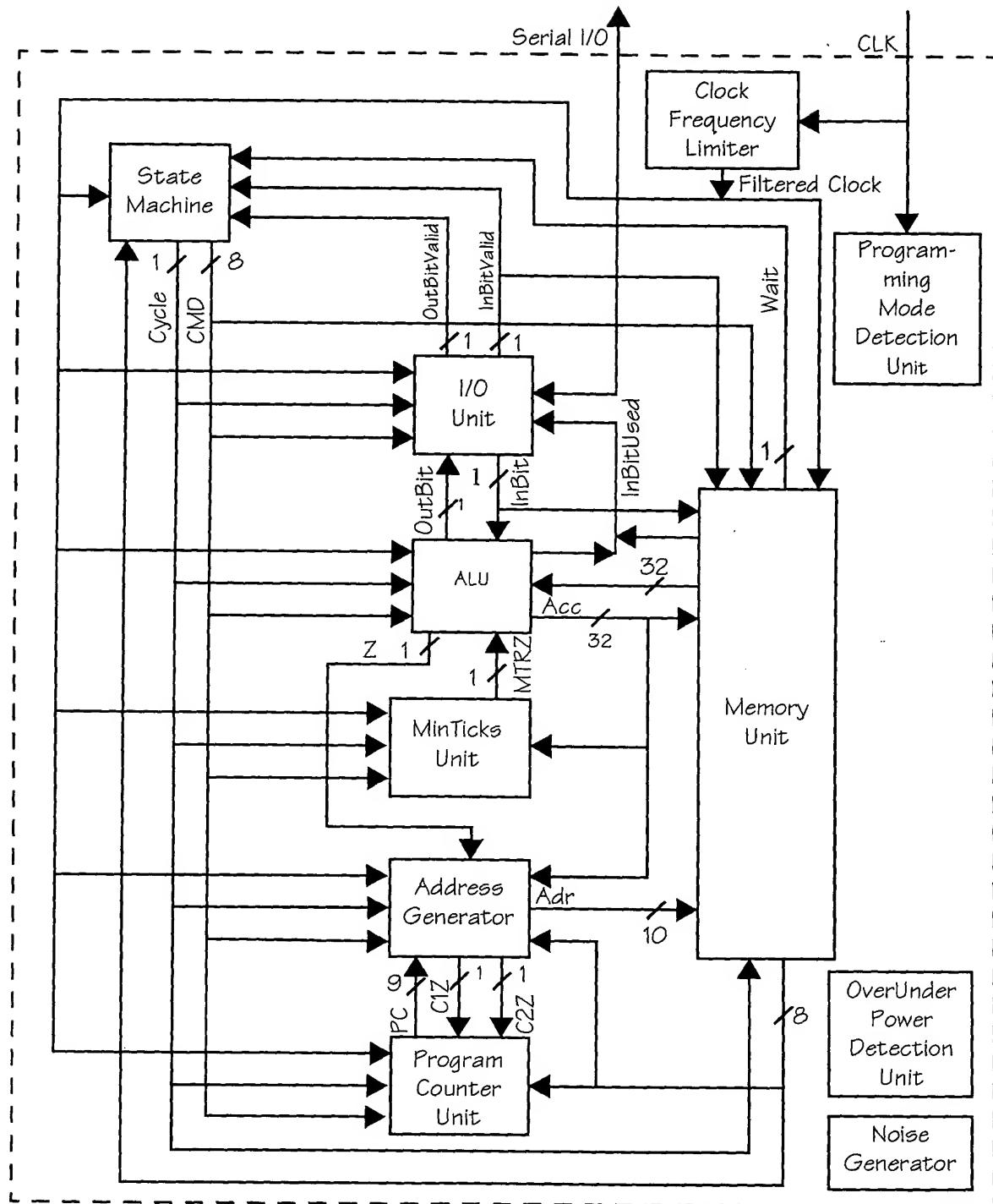


FIG. 181

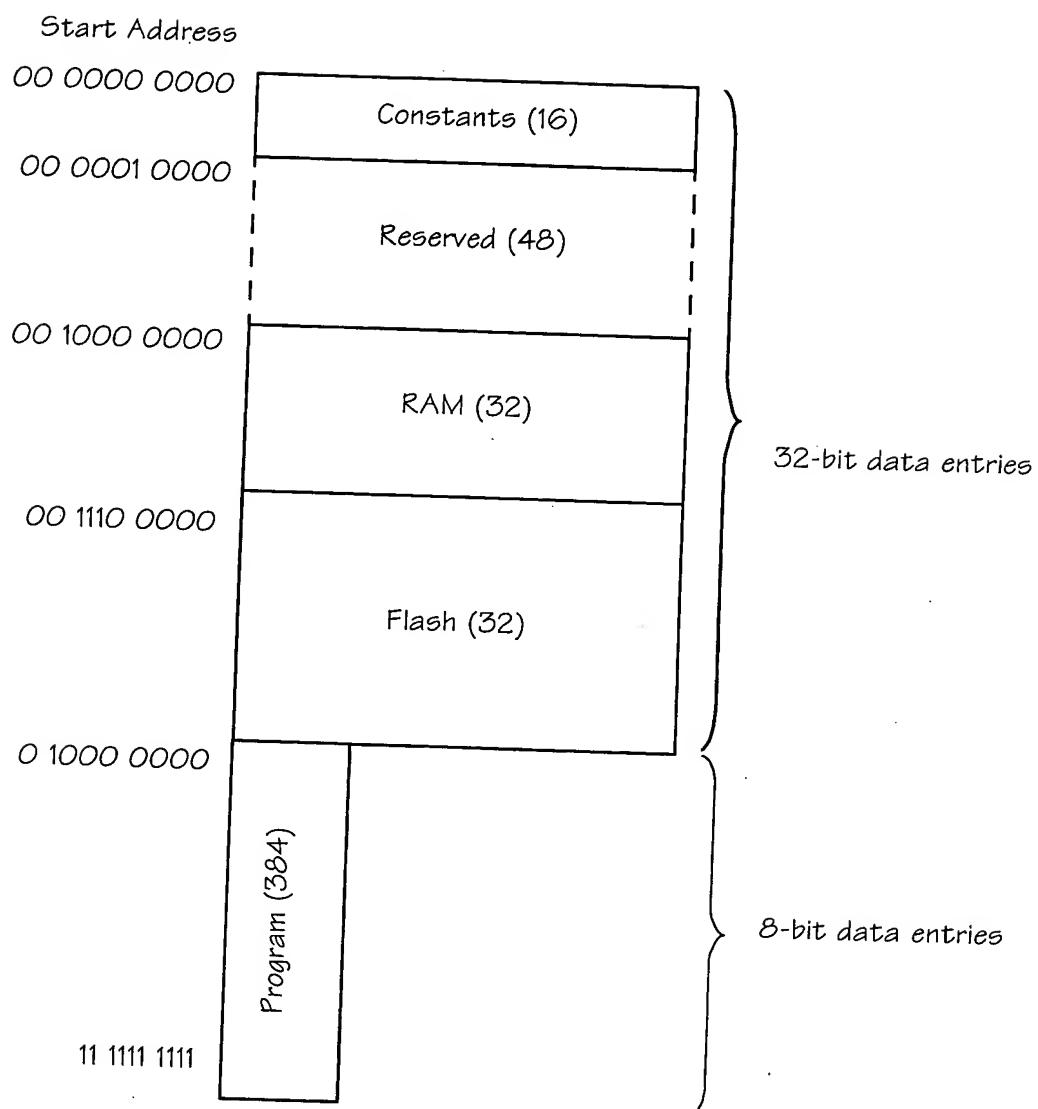


FIG. 182

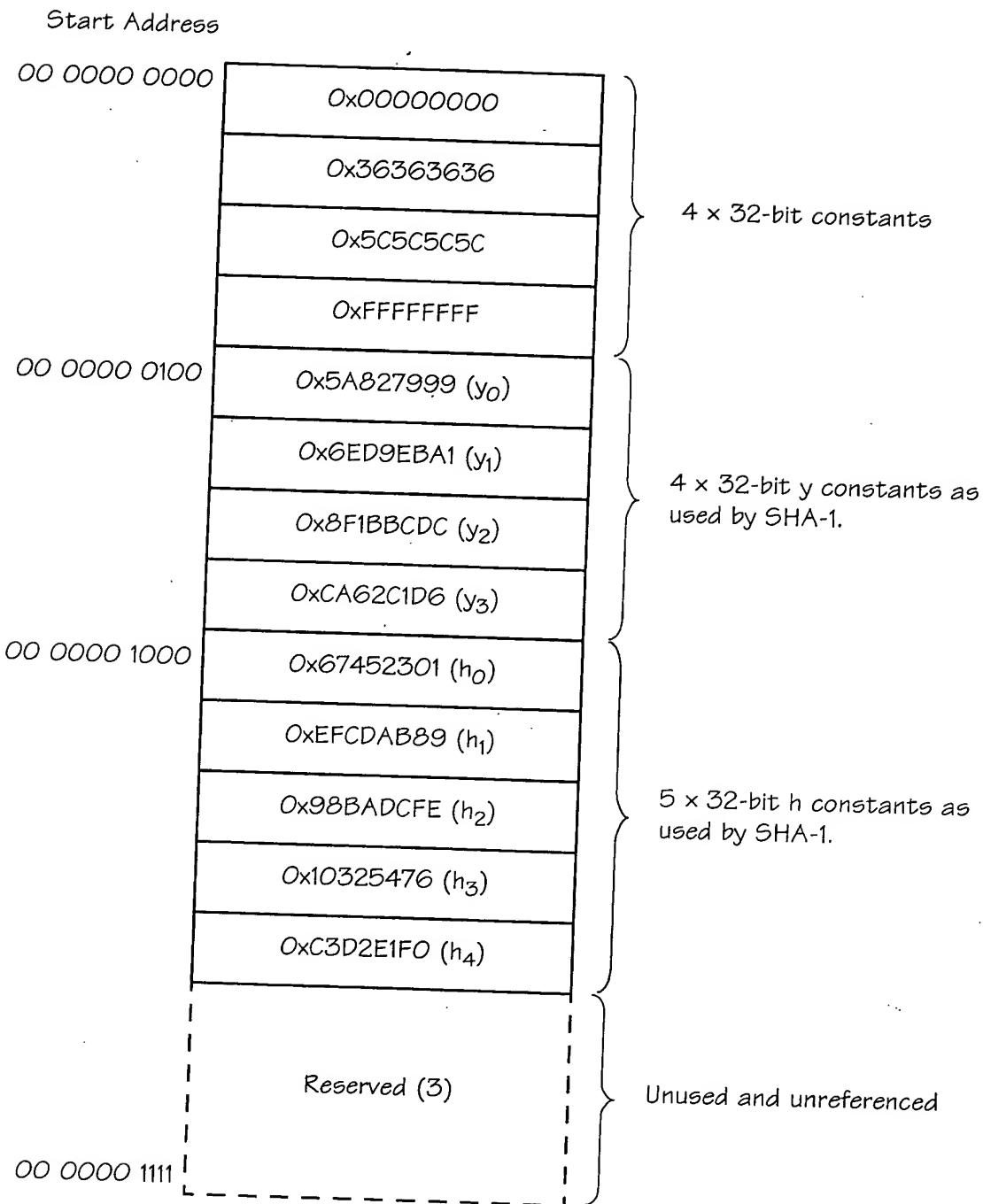


FIG. 183

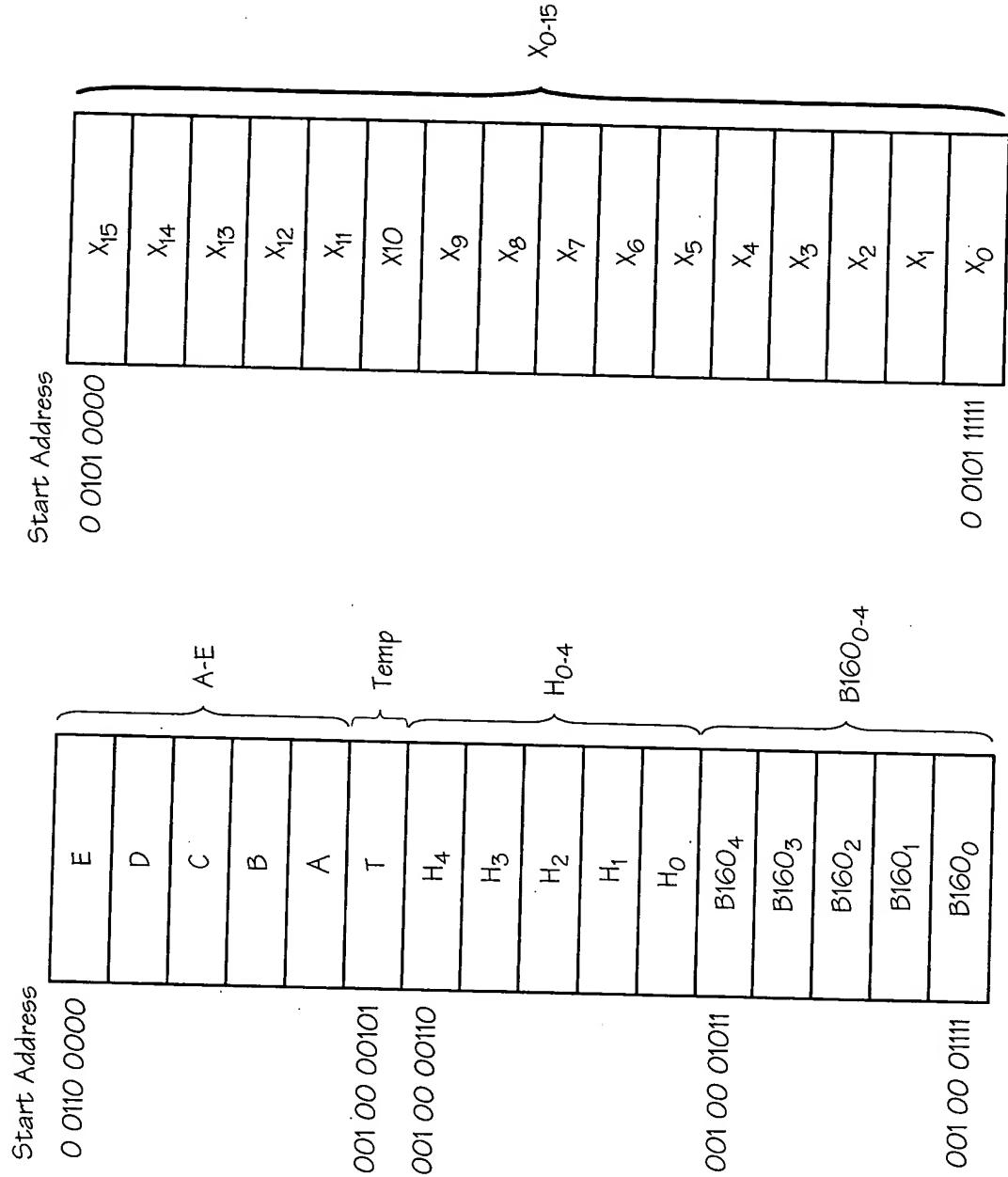


FIG. 184

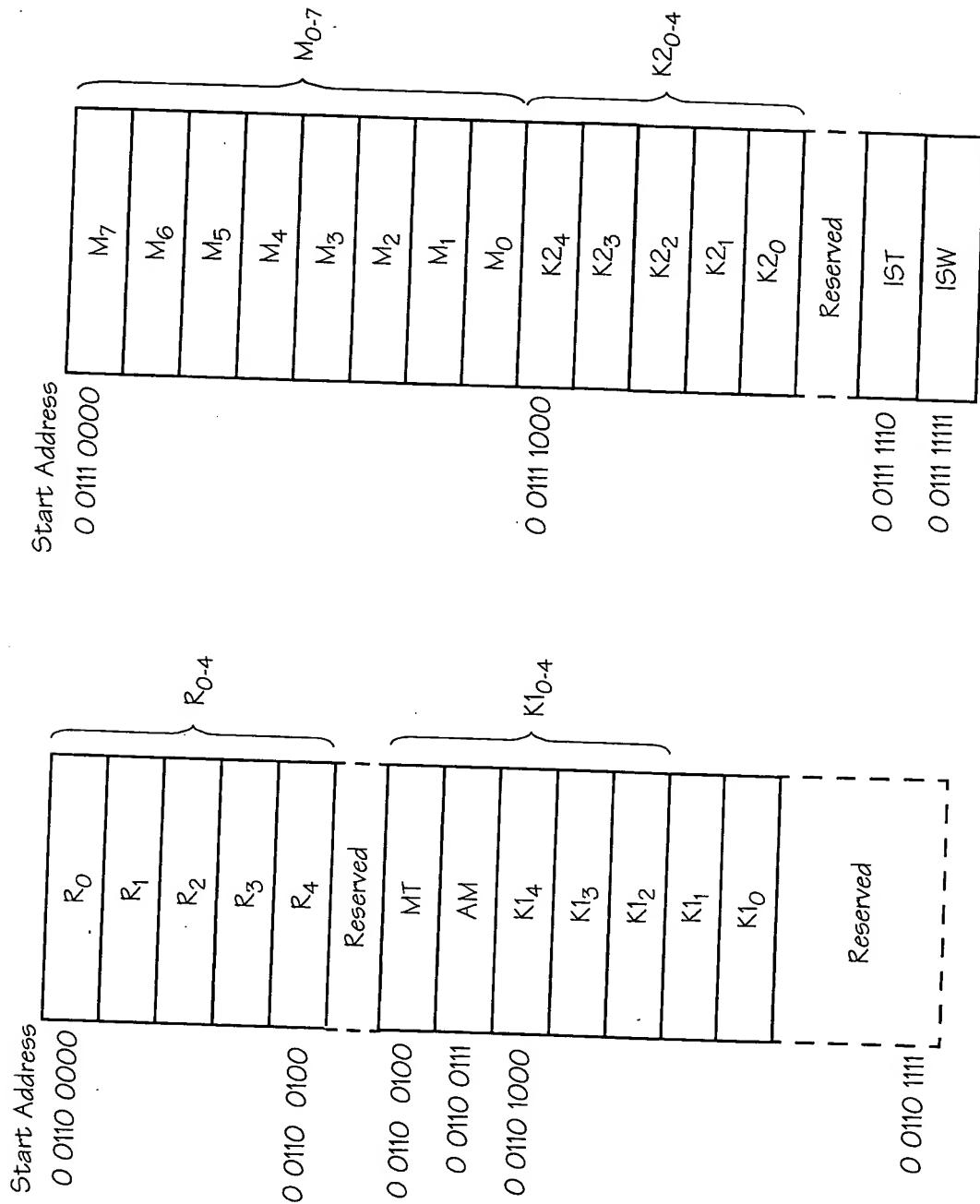


FIG. 185

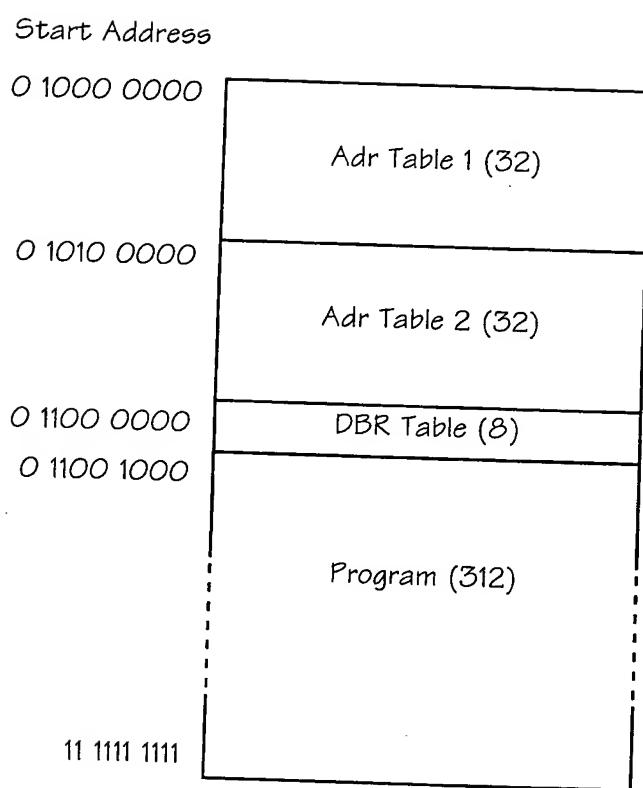


FIG. 186

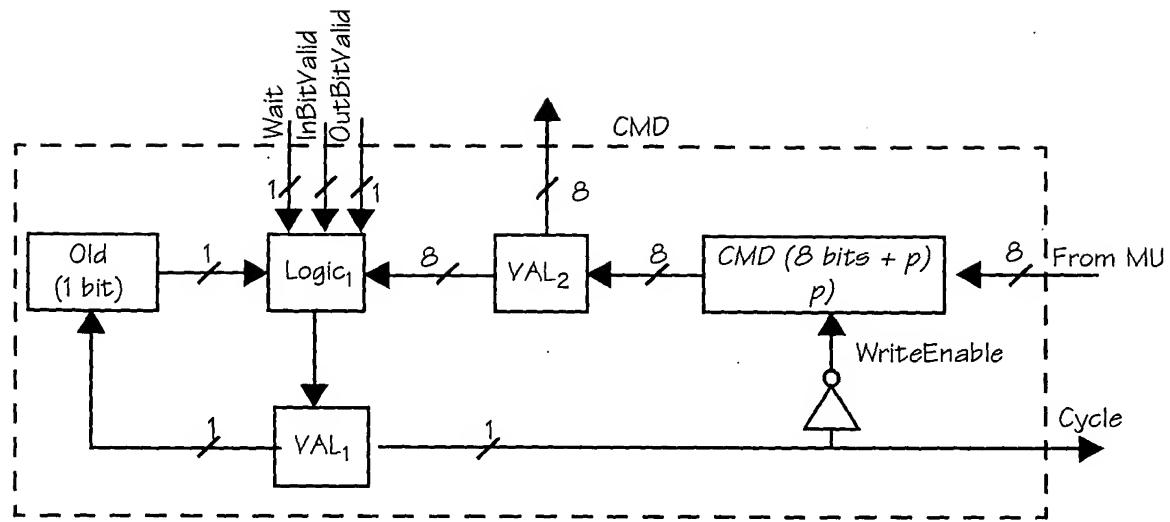


FIG. 187

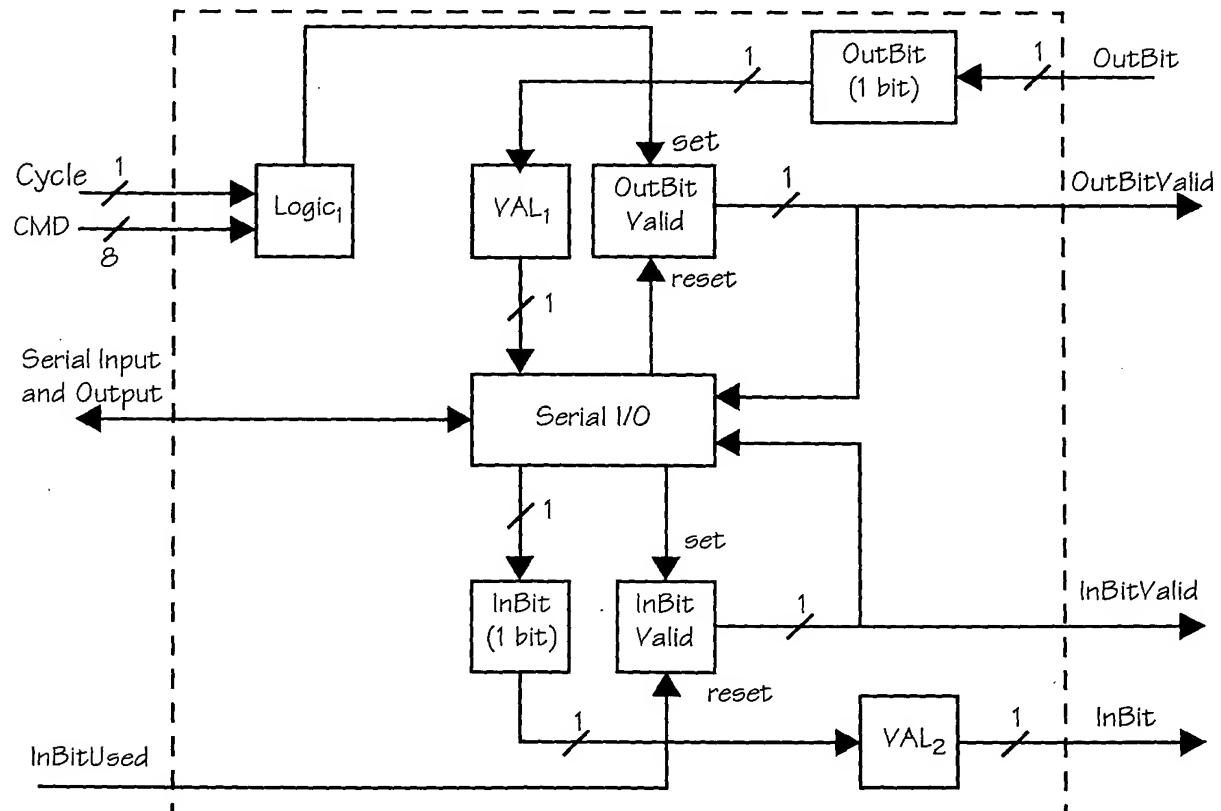


FIG. 188

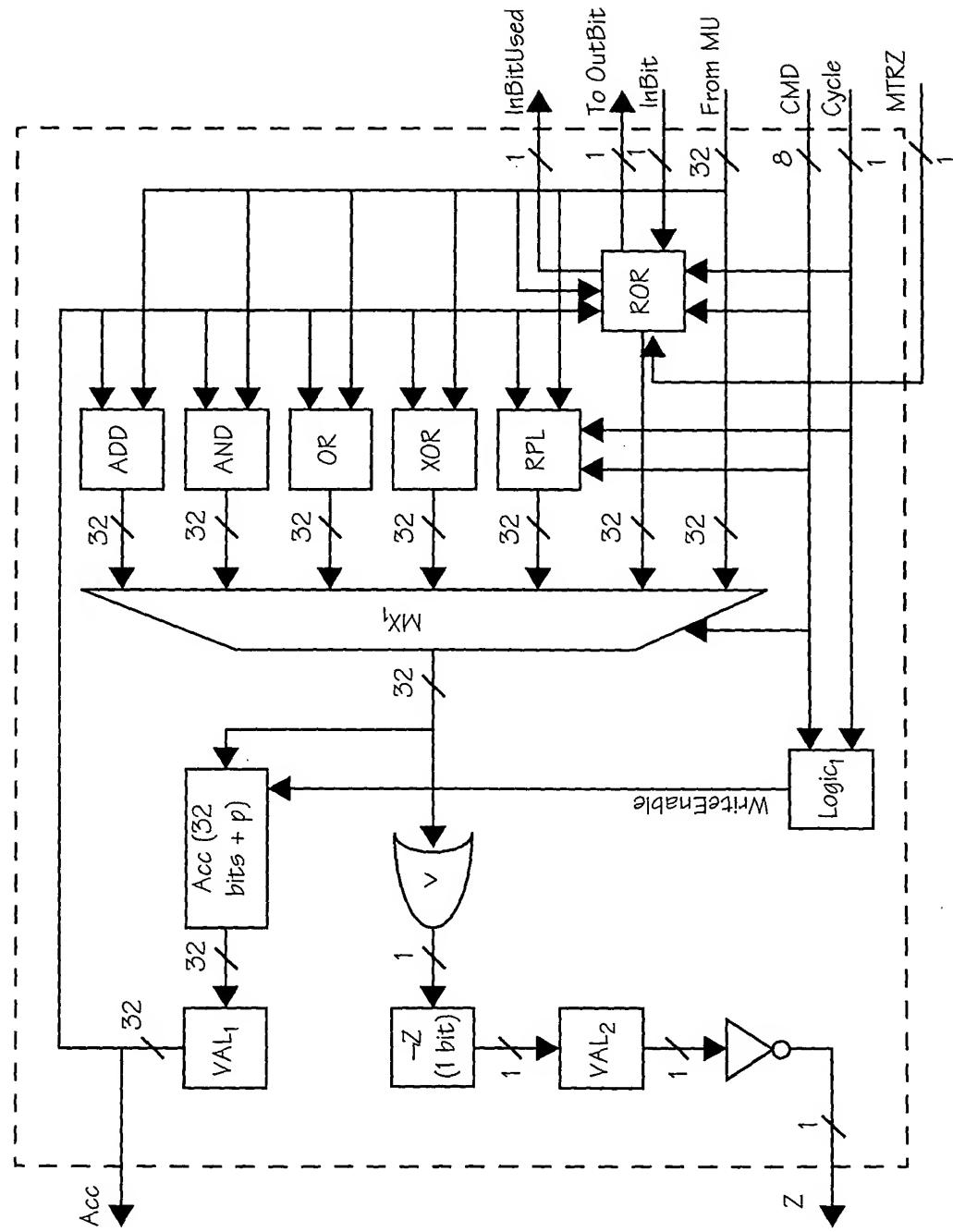


FIG. 189

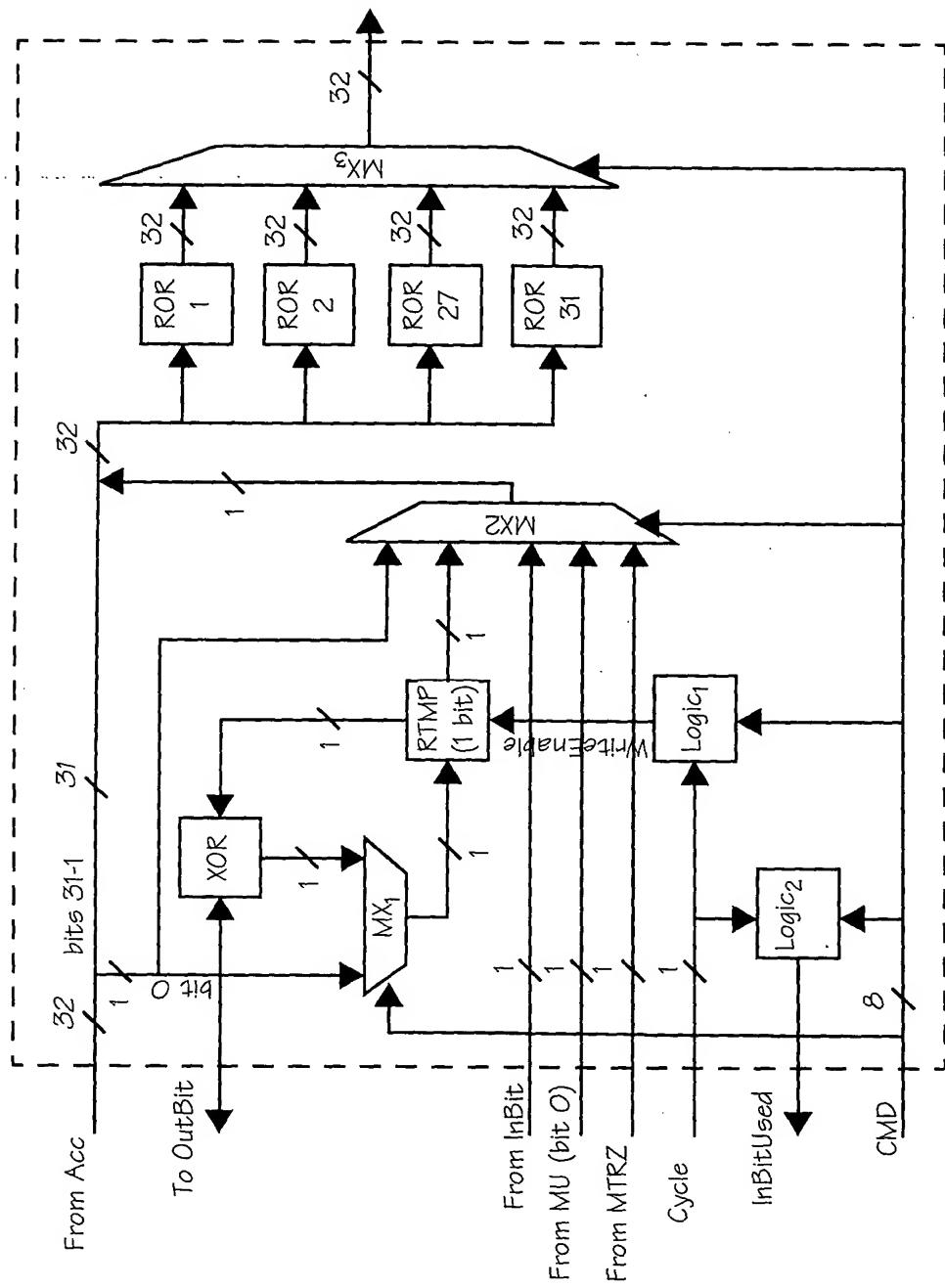


FIG. 190

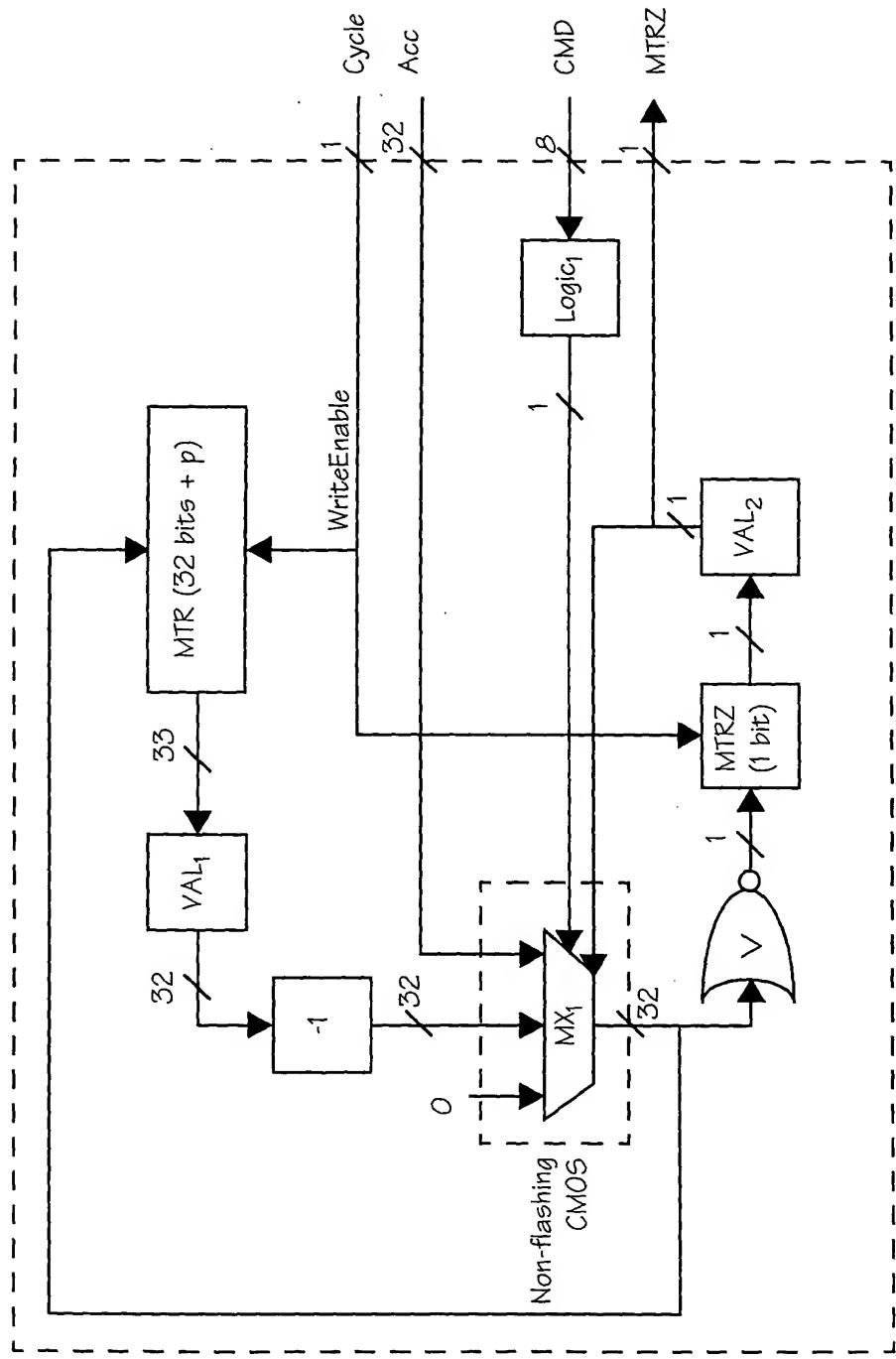


FIG. 191

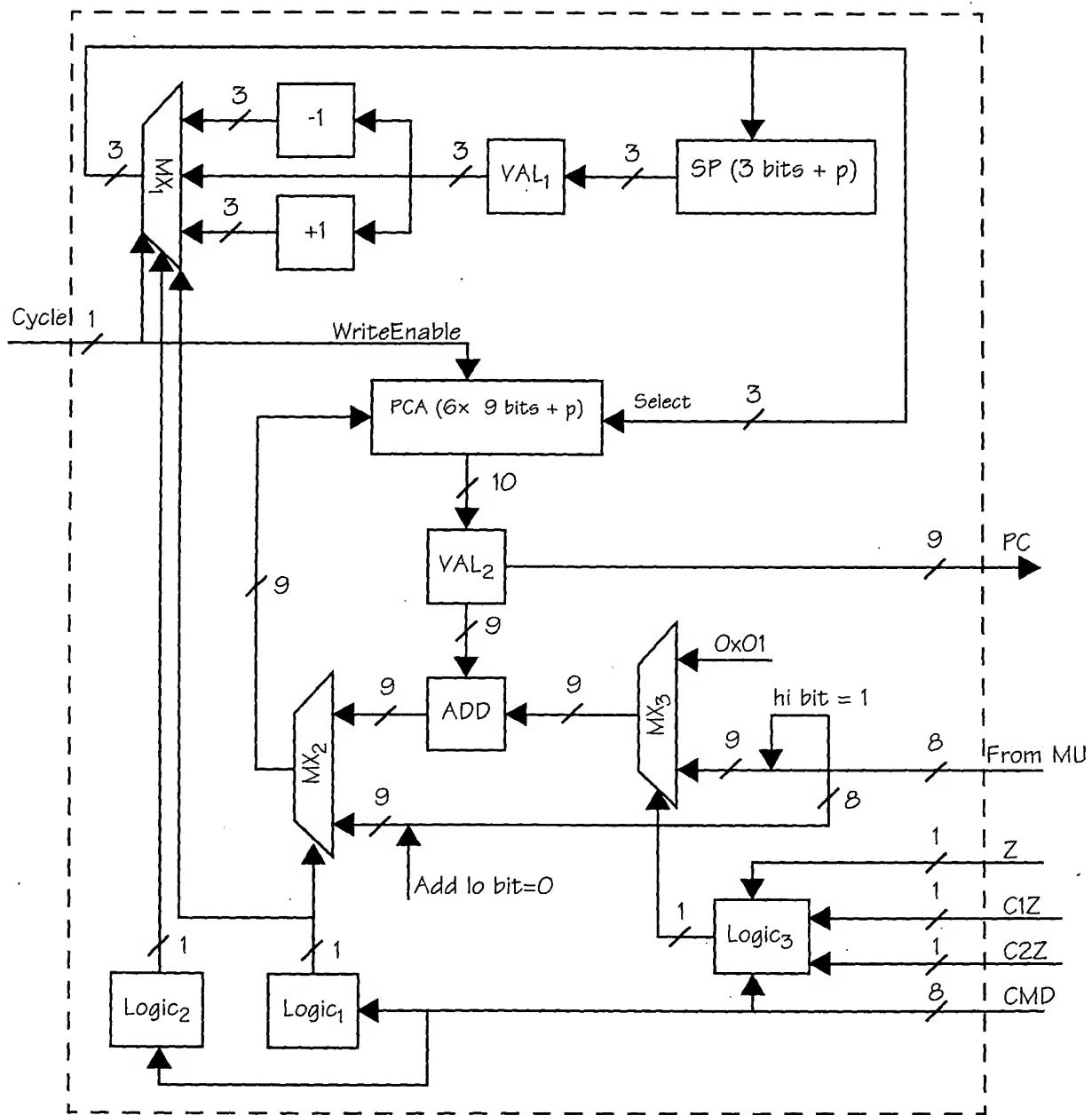


FIG. 192

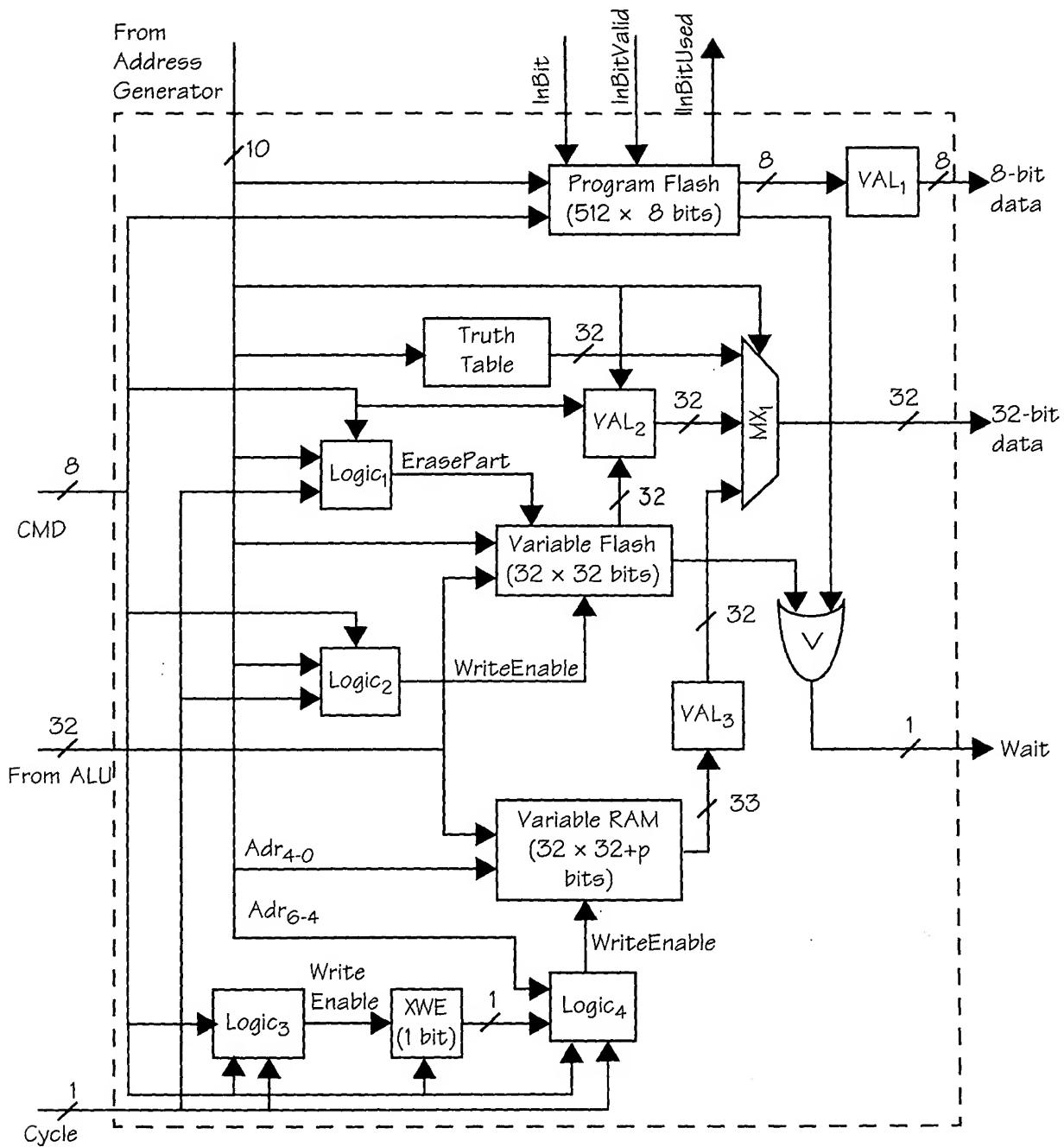


FIG. 193

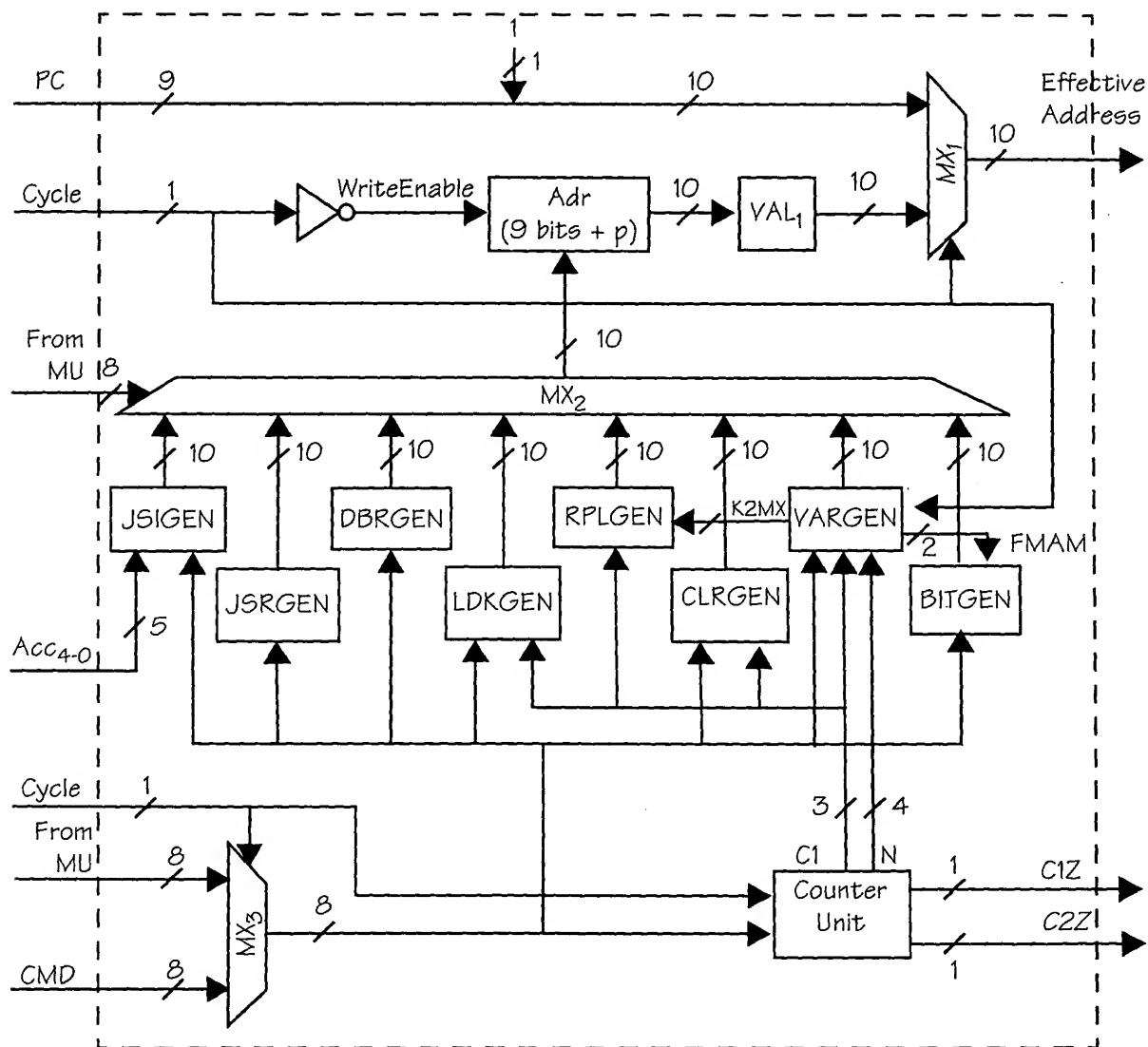


FIG. 194

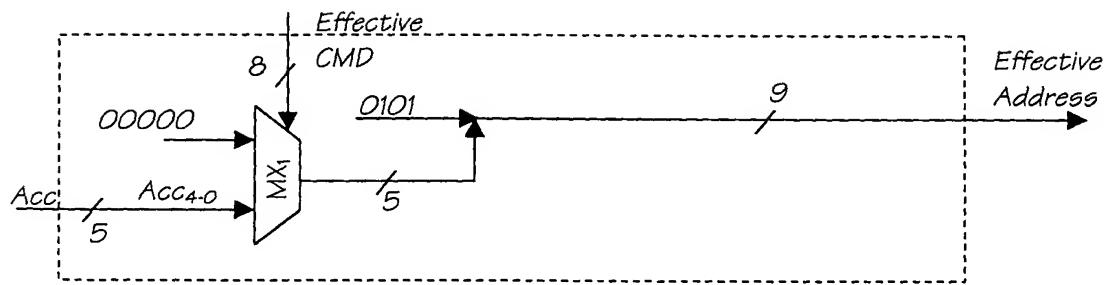


FIG. 195

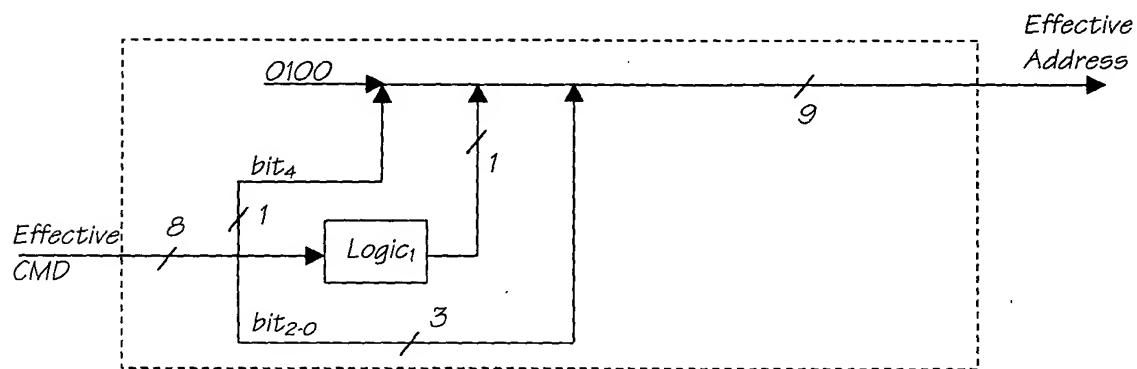


FIG. 196

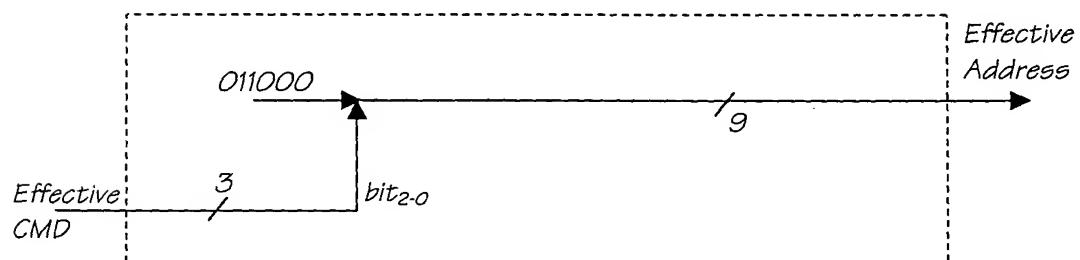


FIG. 197

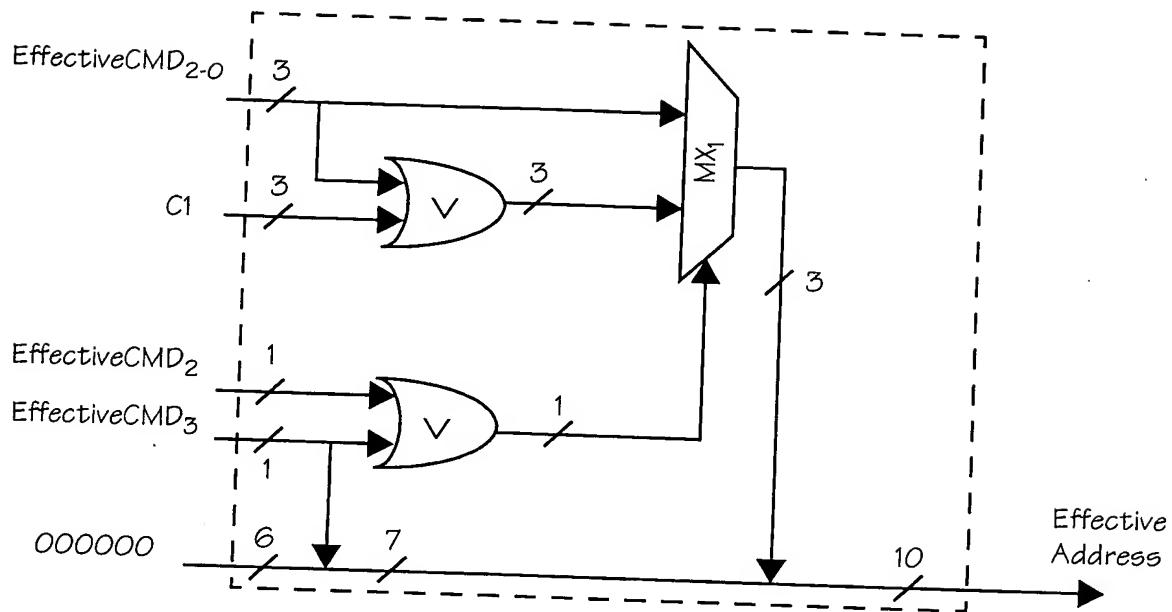


FIG. 198

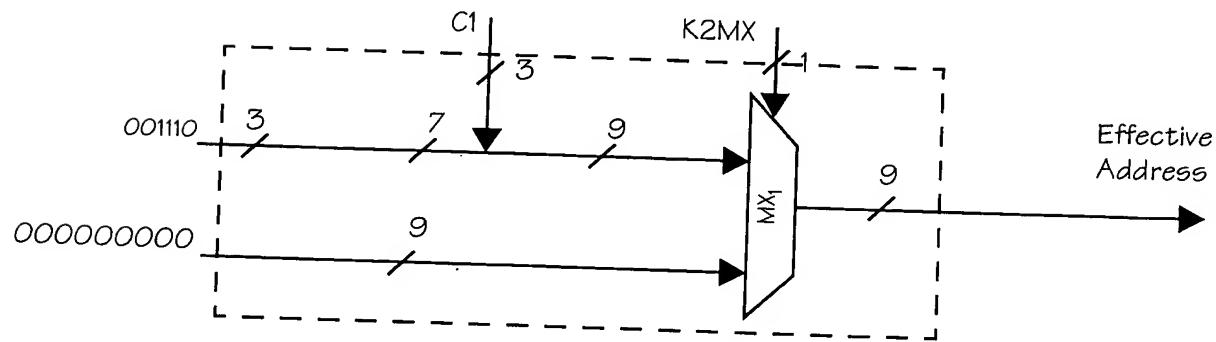


FIG. 199

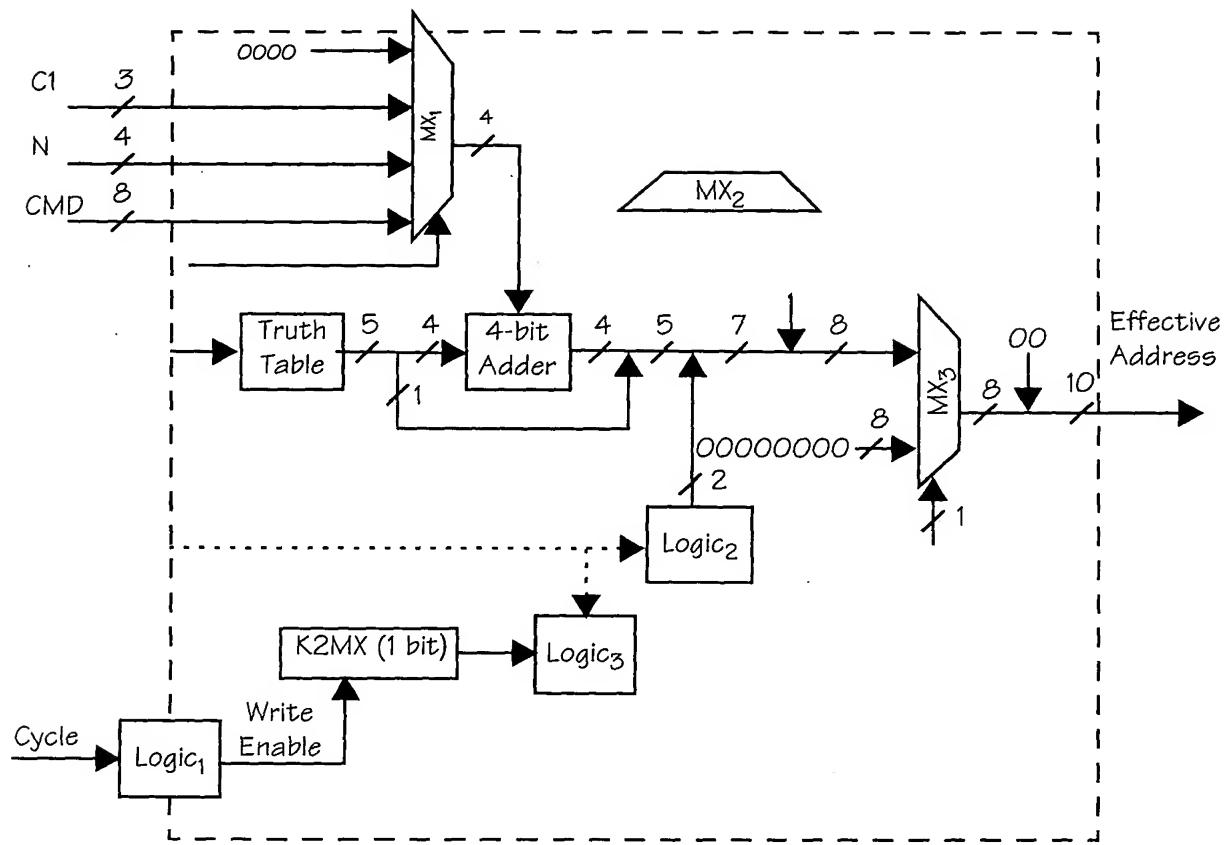


FIG. 200

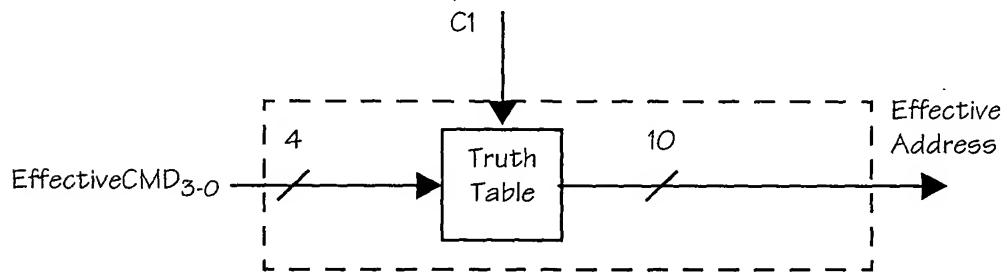


FIG. 201

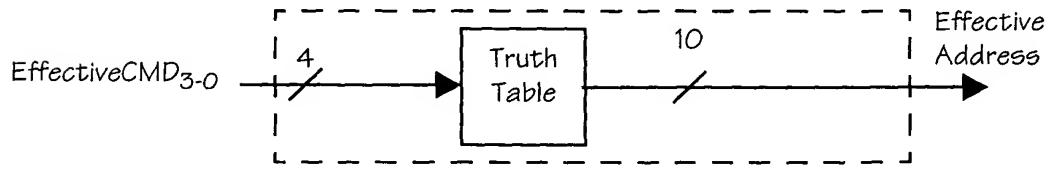


FIG. 202

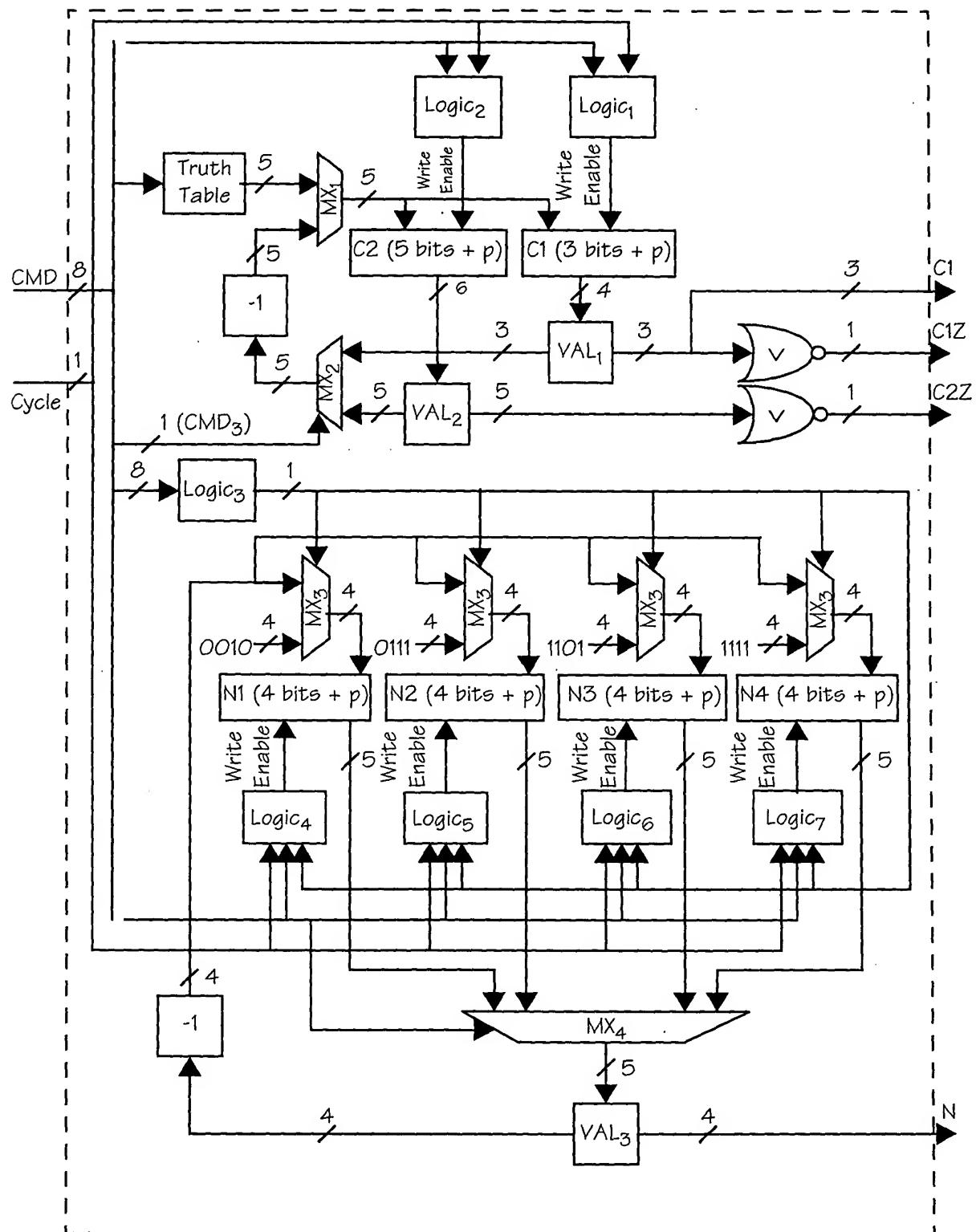


FIG. 203

705

DATA TYPE	BITS
Factory Code	16
Batch Number	32
Serial Number	48
Manufacturing Date	16
Media Length	24
Media Type	8
Preprinted Media Length	16
Cyan Ink Viscosity	8
Magenta Ink Viscosity	8
Yellow Ink Viscosity	8
Cyan Drop Volume	8
Magenta Drop Volume	8
Yellow Drop Volume	8
Cyan Ink Color	24
Magenta Ink Color	24
Yellow Ink Color	24
Remaining-media Length Indicator	16
Authentication Key	128
Copyrightable bit pattern	512
Reserved for Camera Use	88
<b>TOTAL</b>	<b>1024</b>

728

FIG. 204

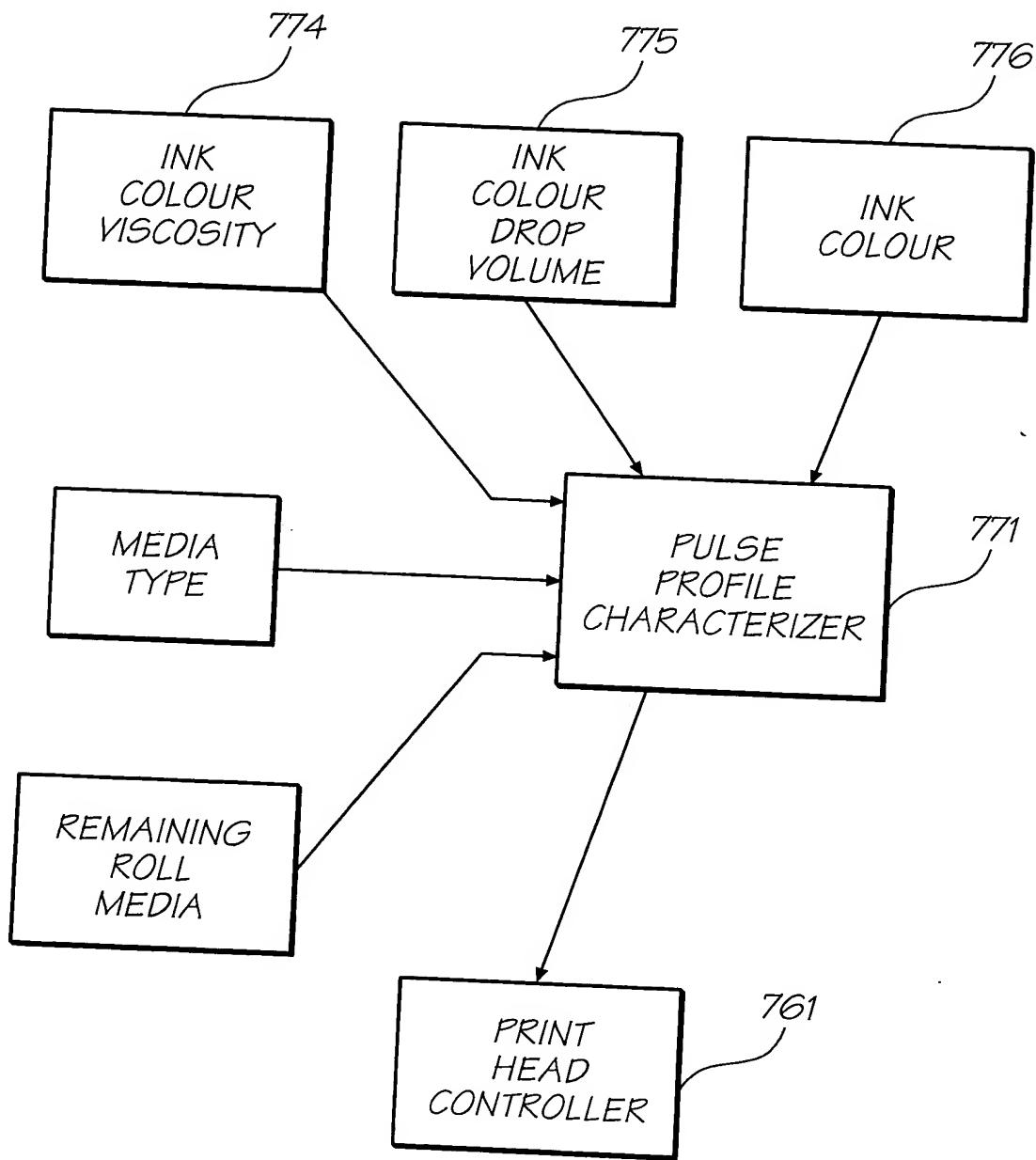


FIG. 205

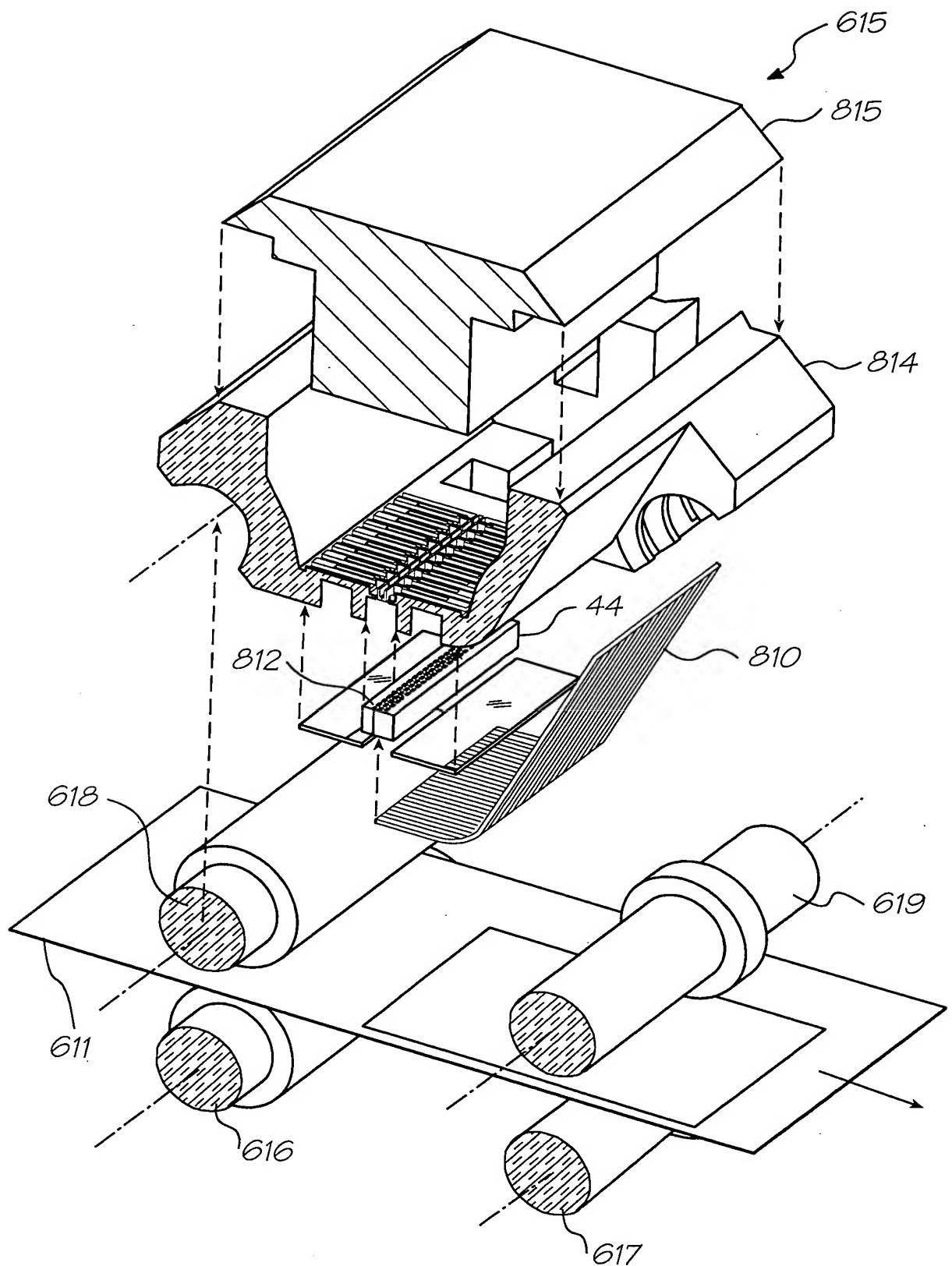
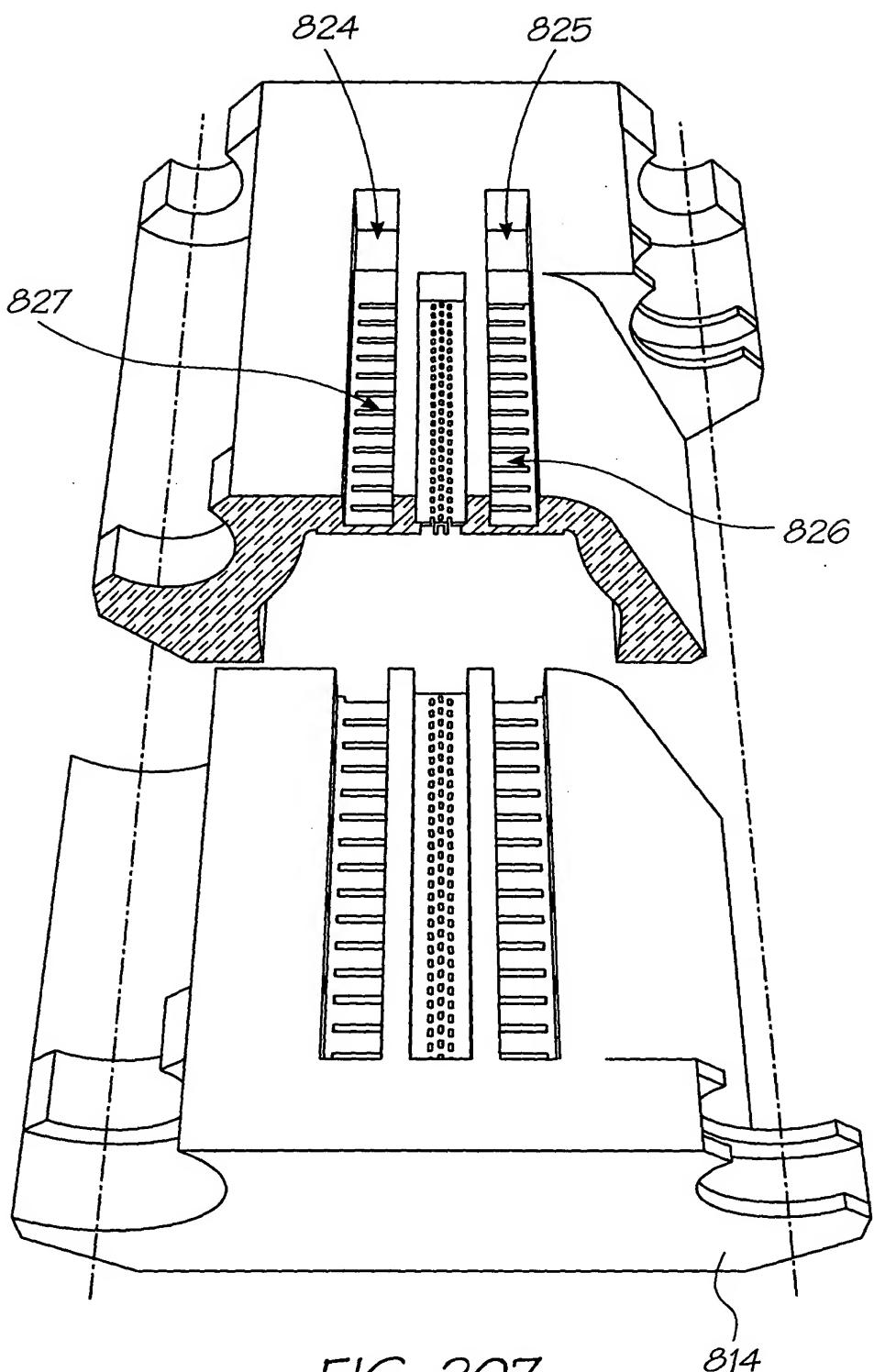


FIG. 206



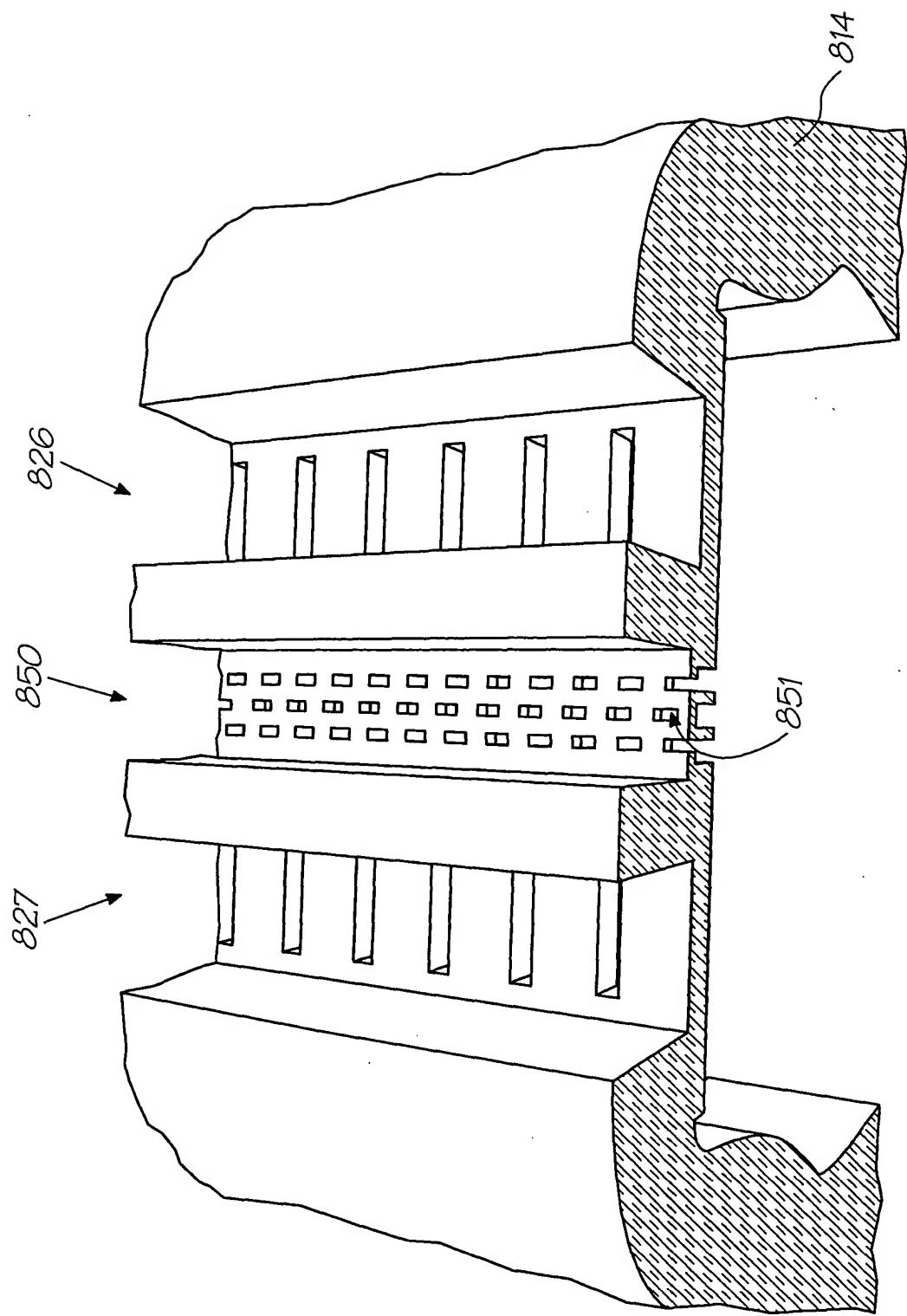


FIG. 208

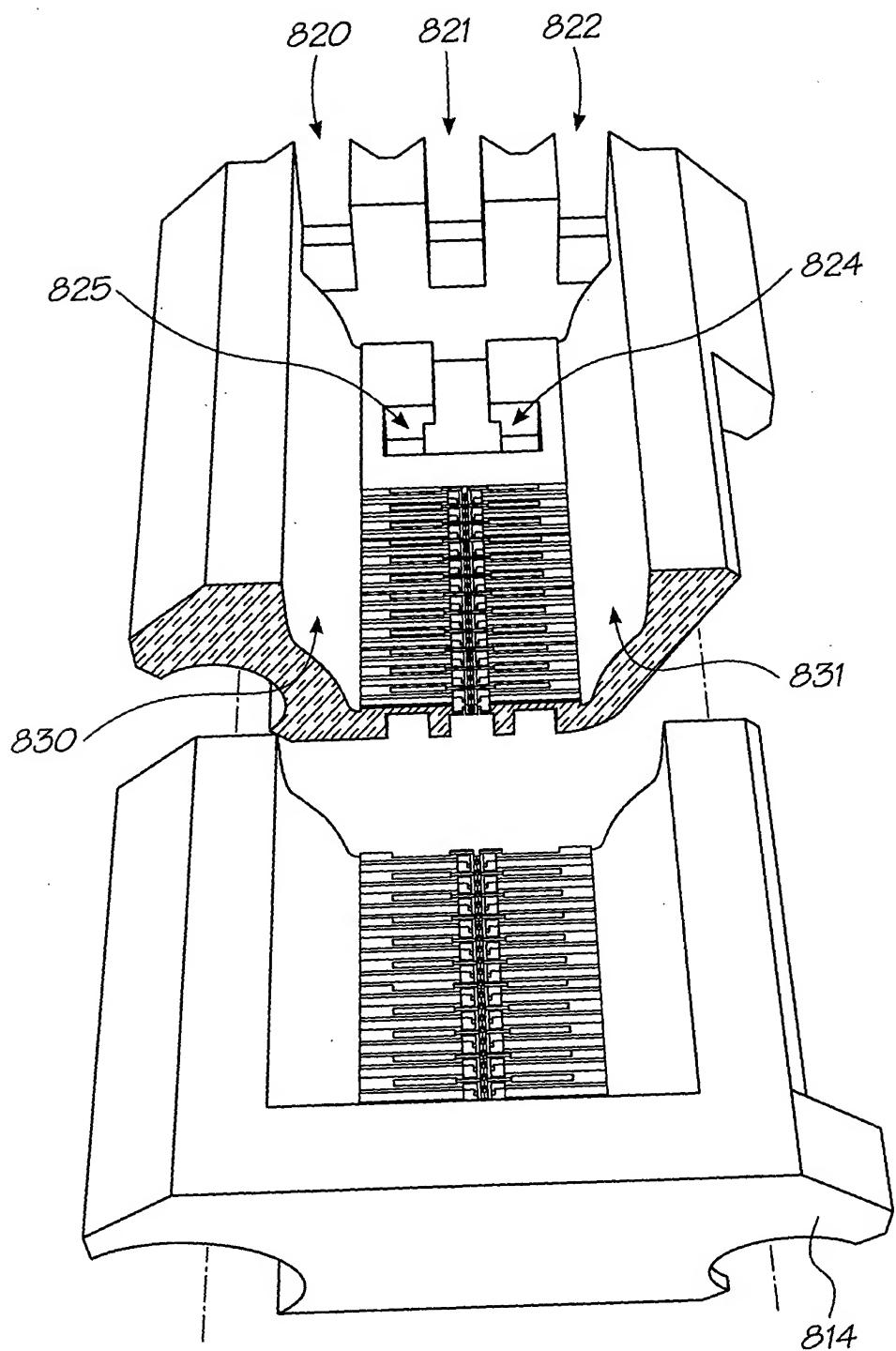


FIG. 209

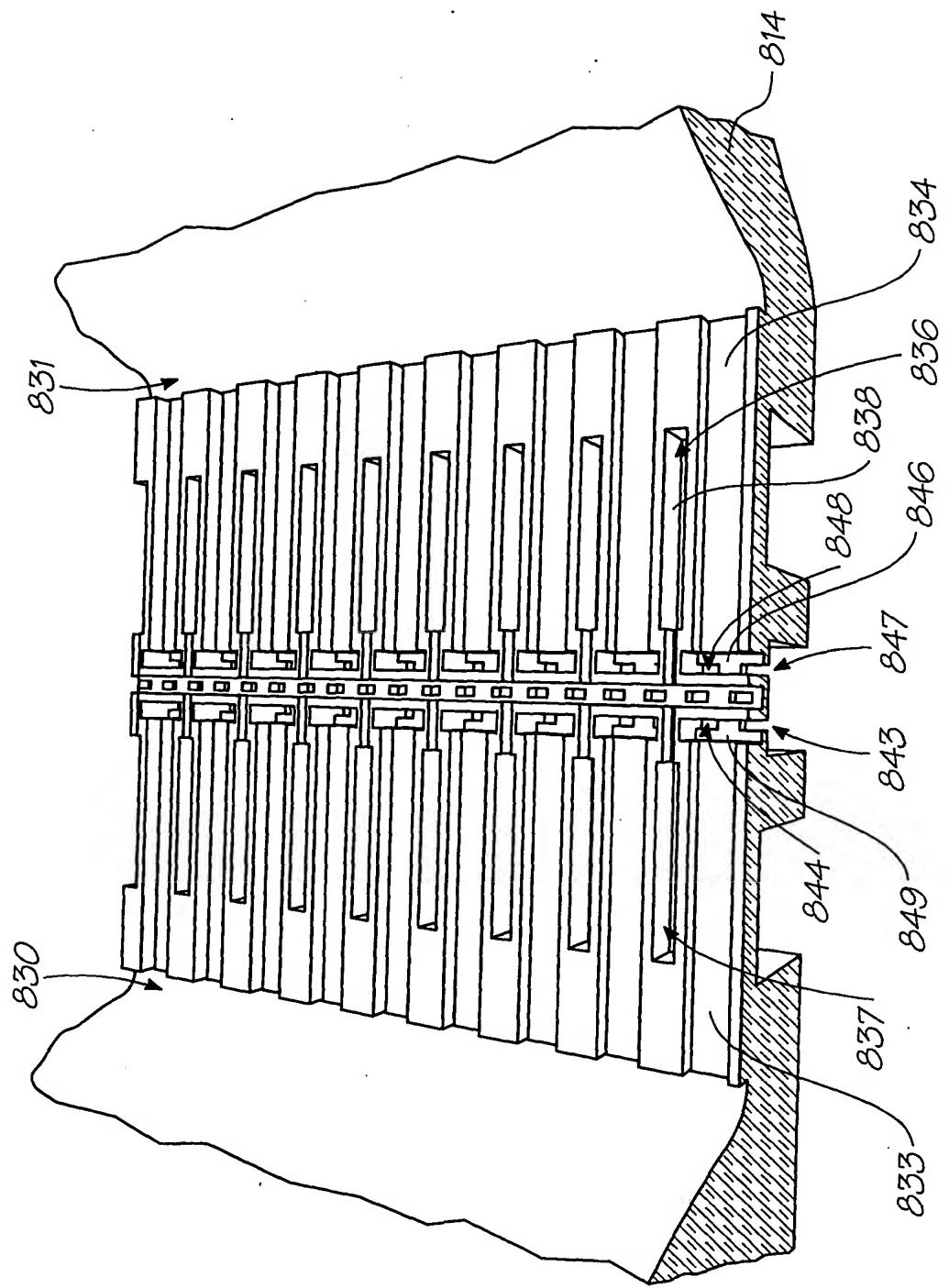


FIG. 210

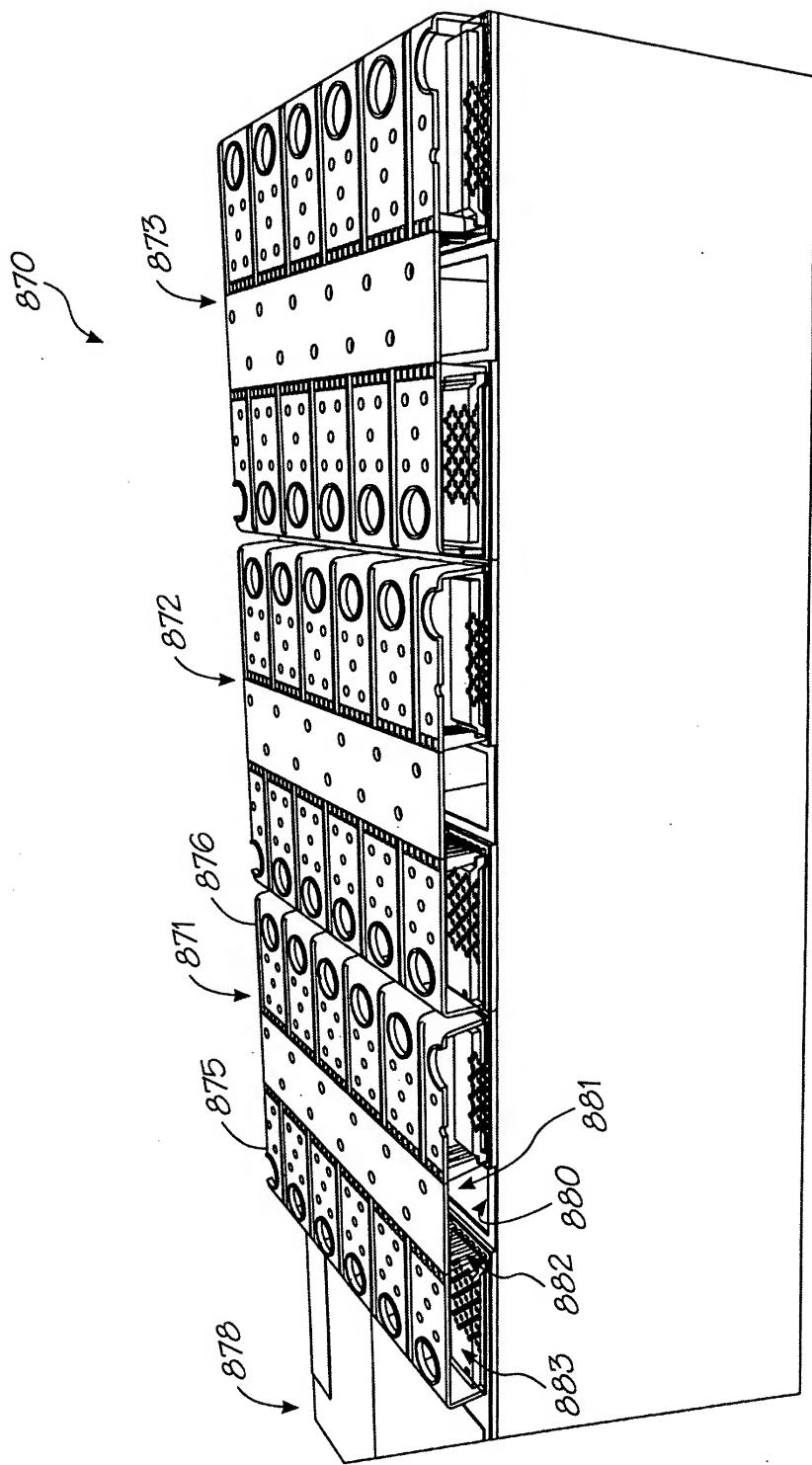


FIG. 211

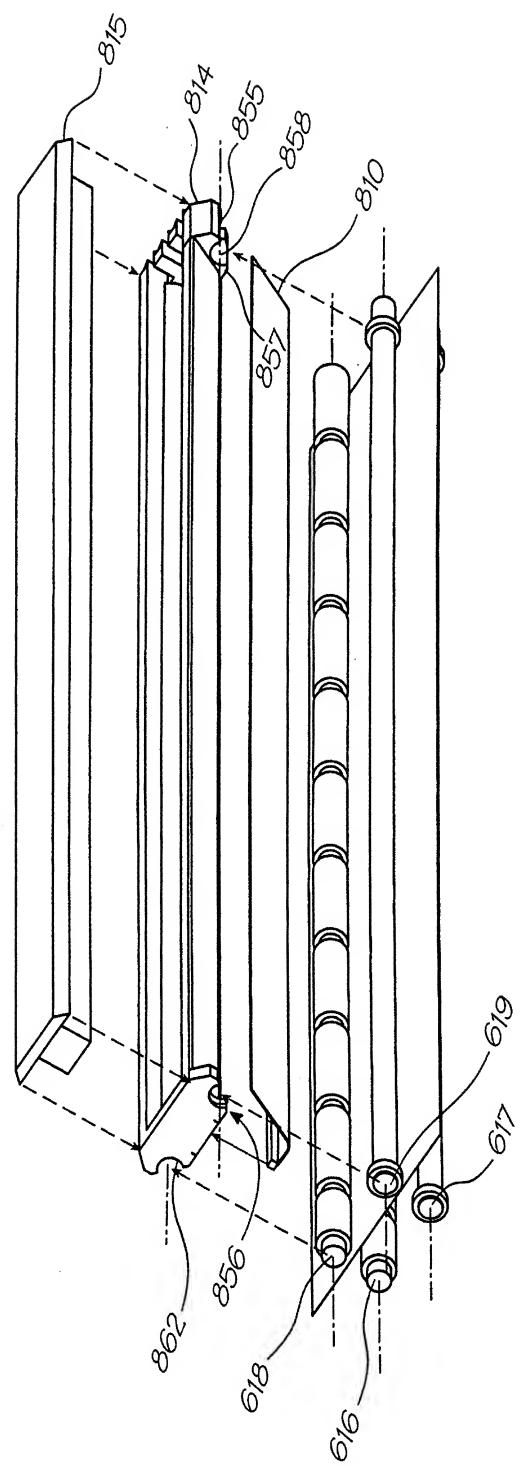


FIG. 212

FIG. 213

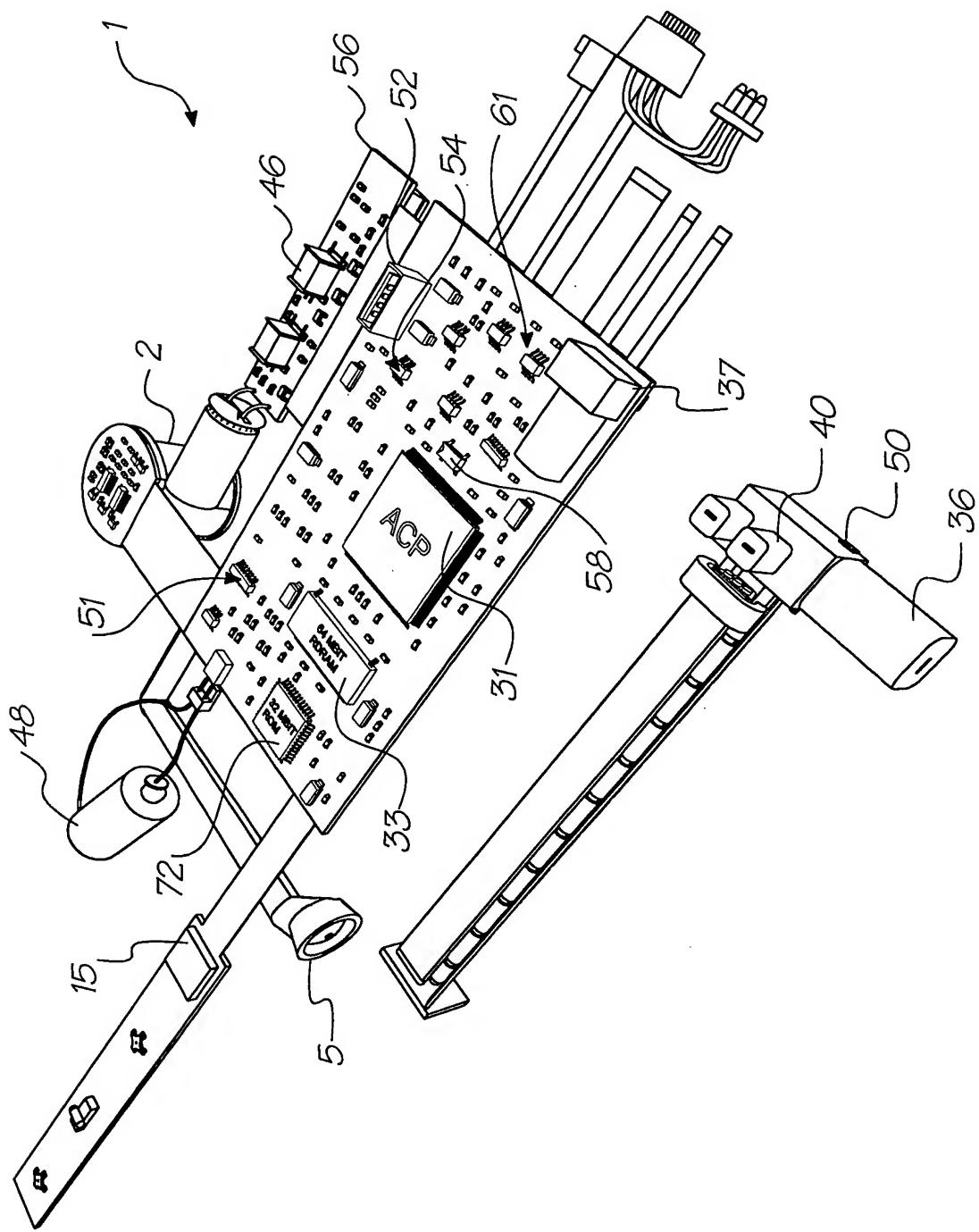
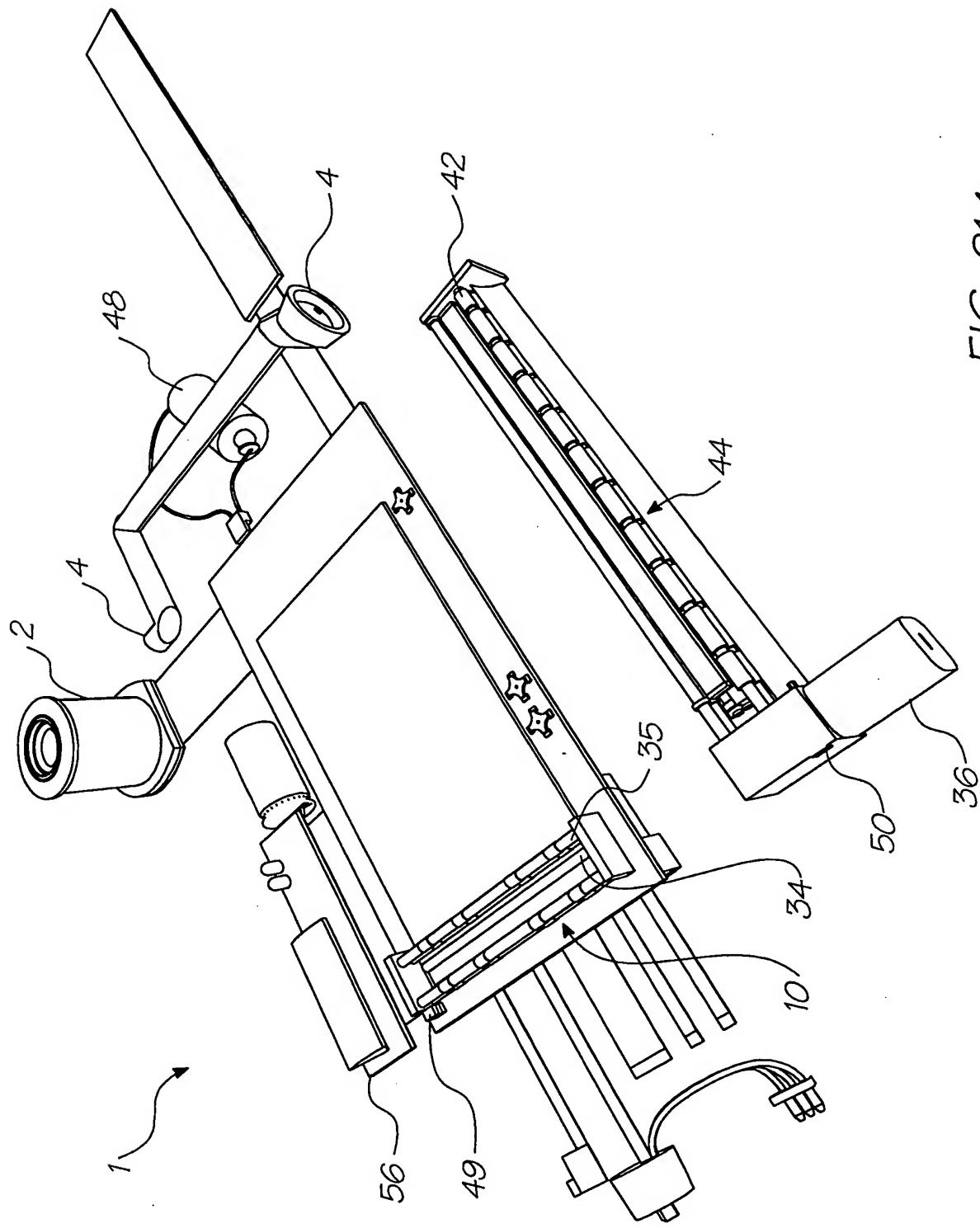


FIG. 214



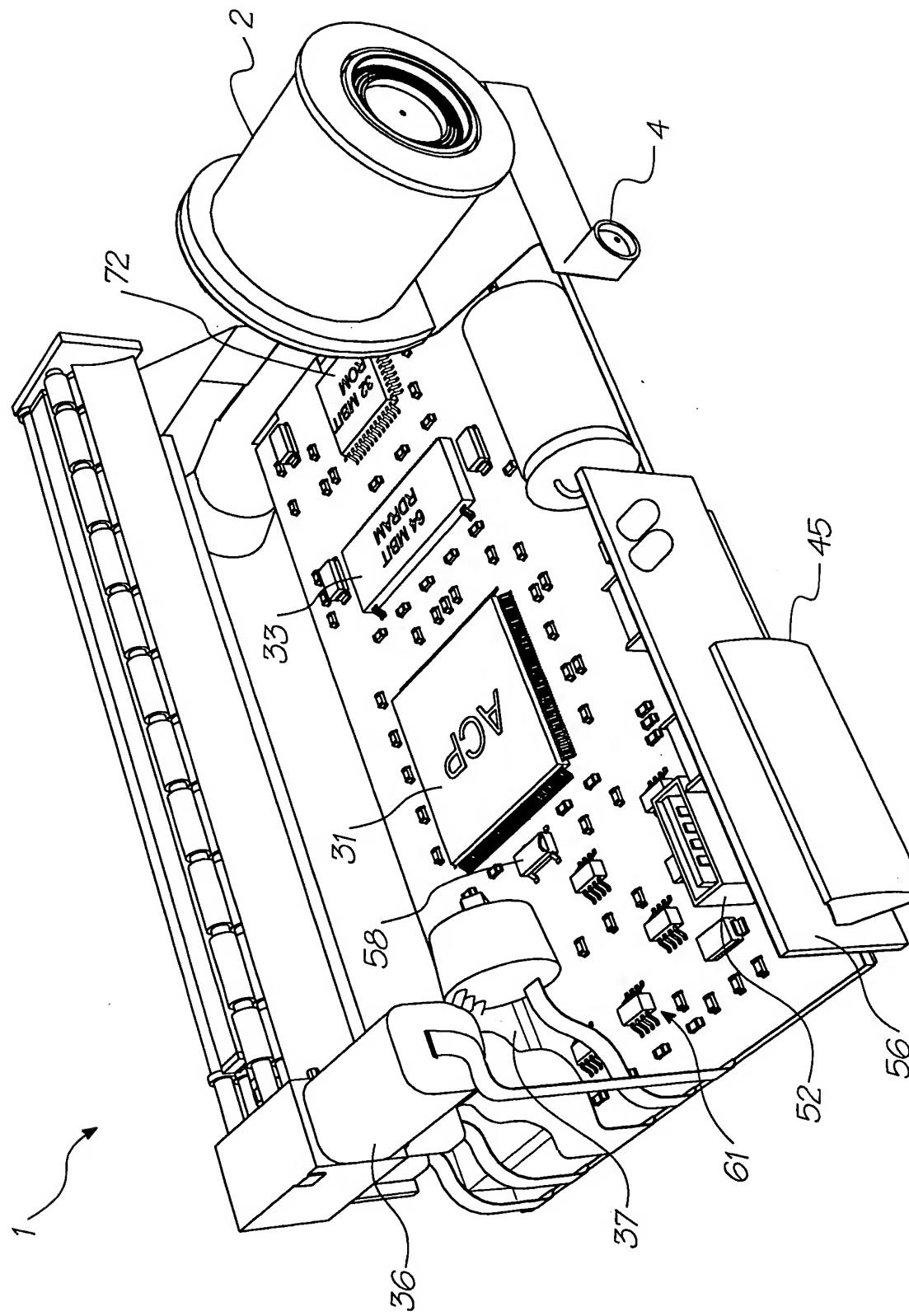
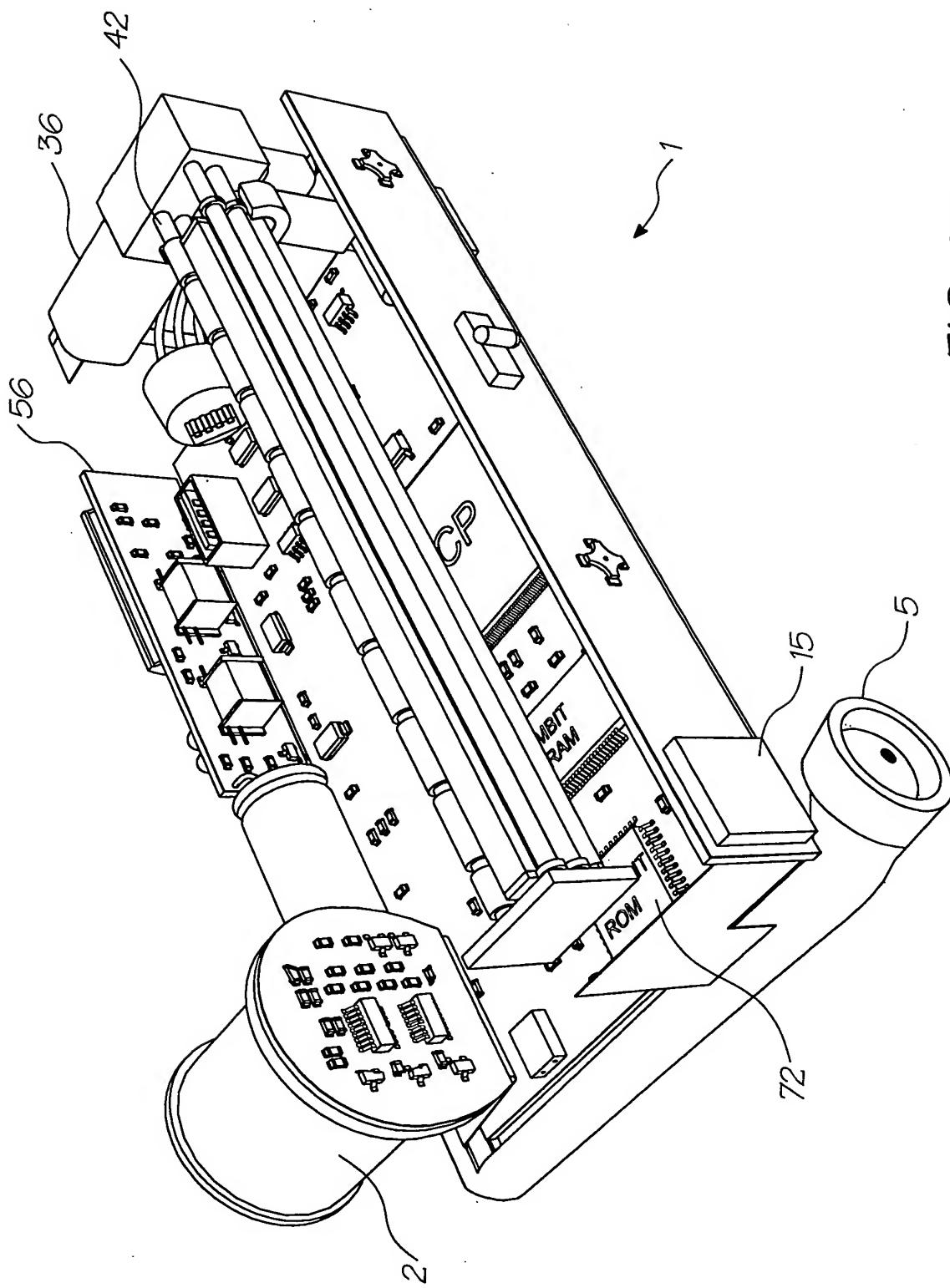


FIG. 215

FIG. 216



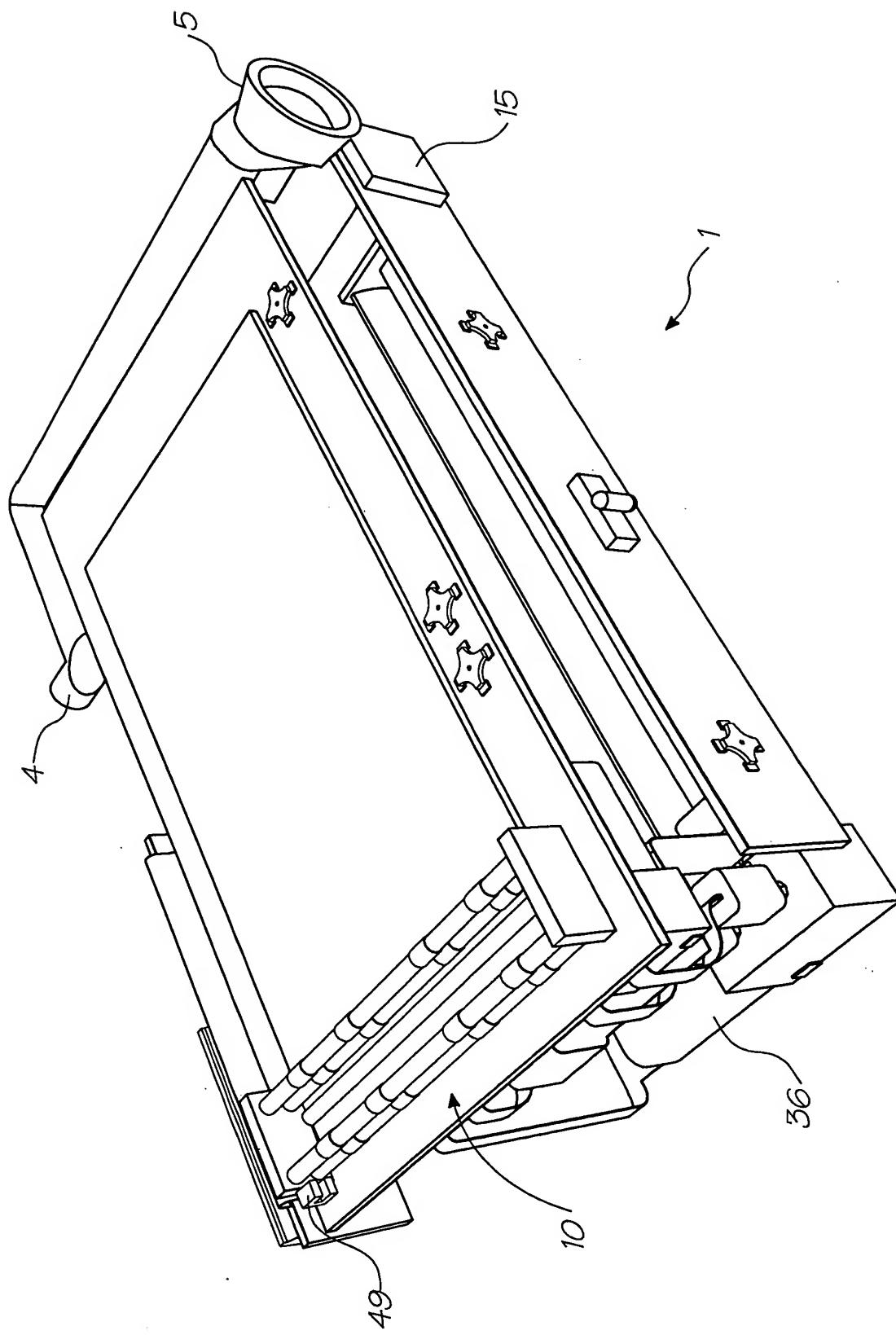


FIG. 217

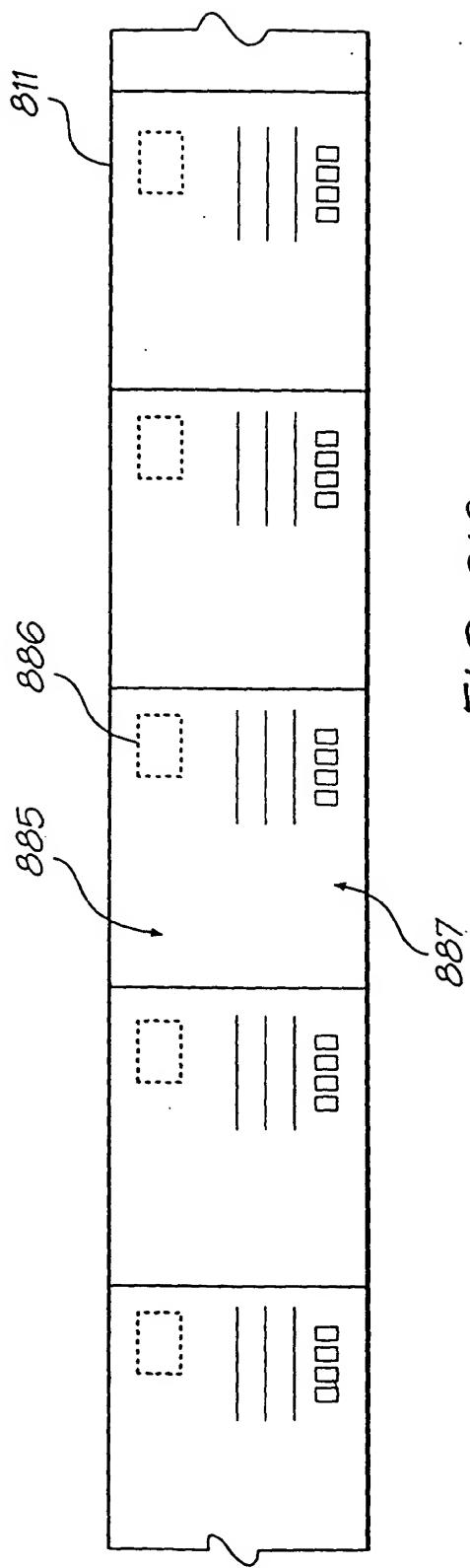


FIG. 218

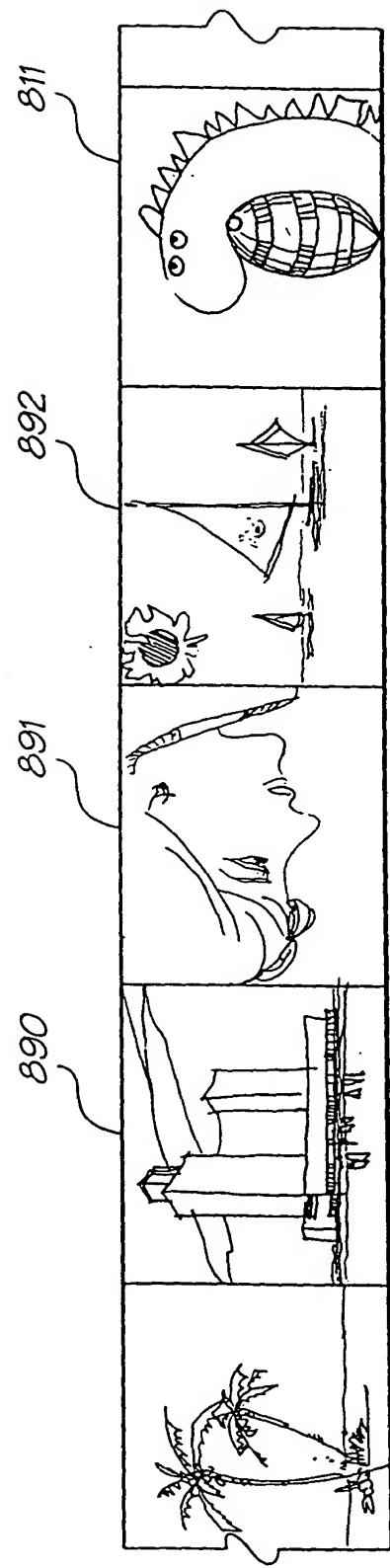


FIG. 219

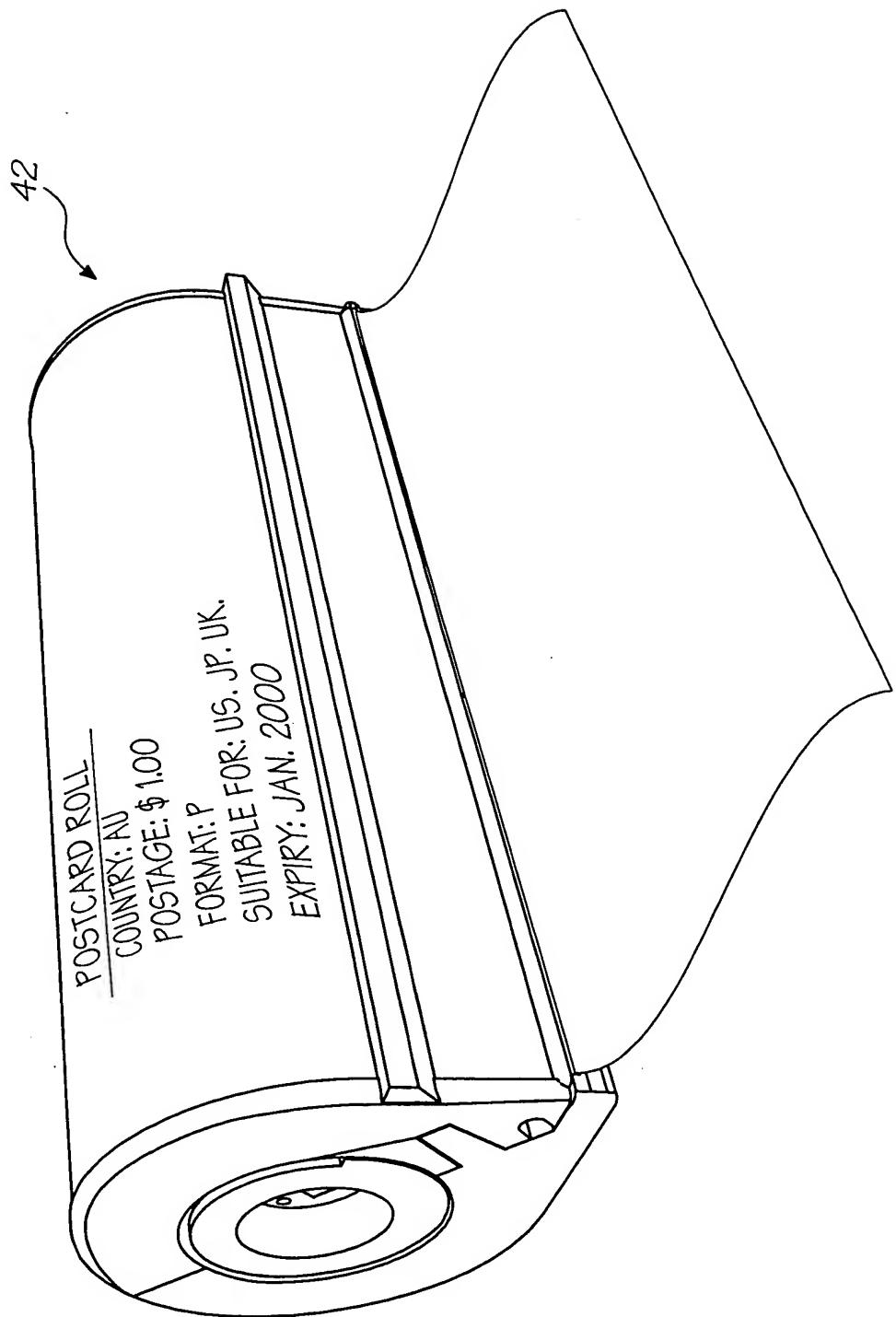


FIG. 220

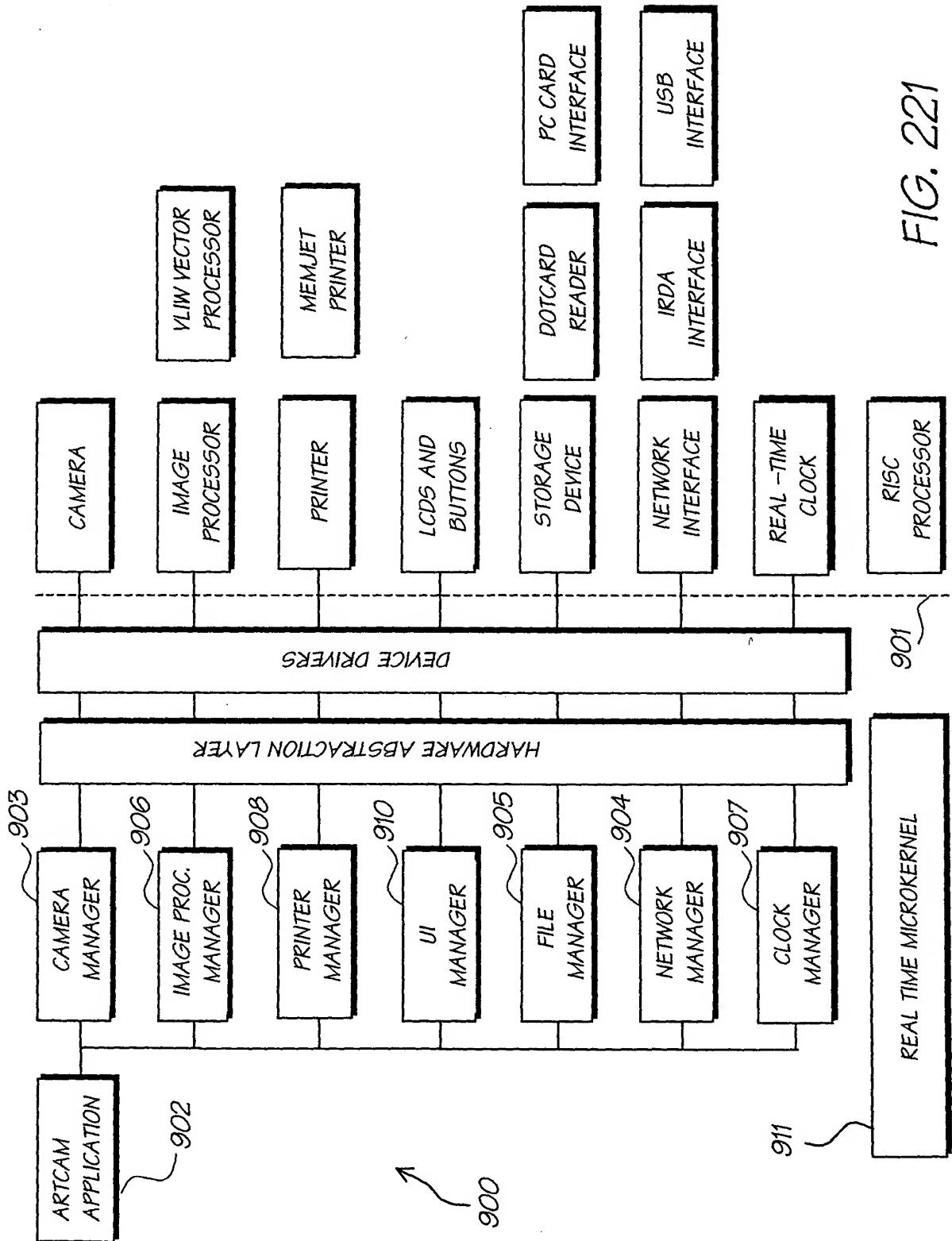


FIG. 221

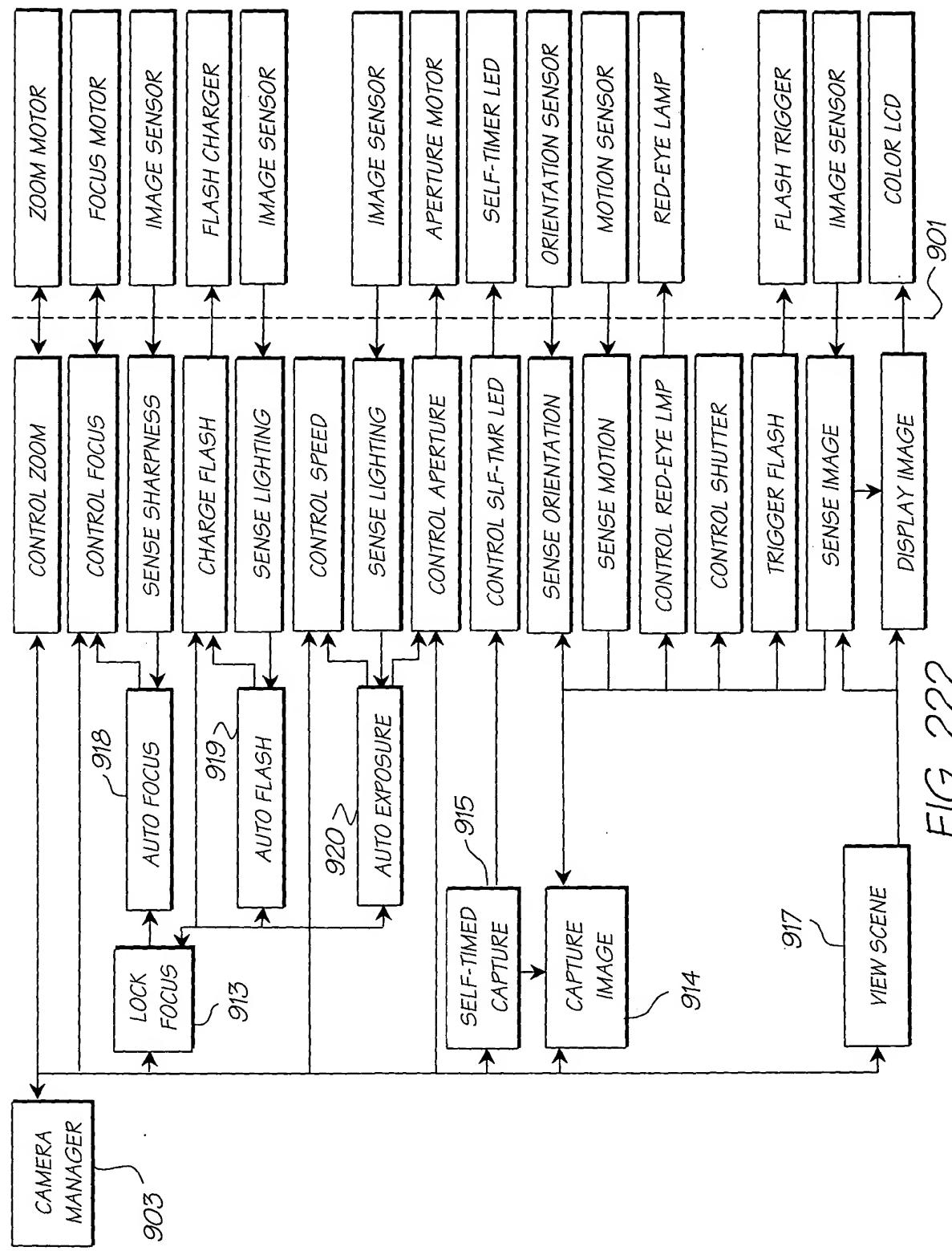


FIG. 222

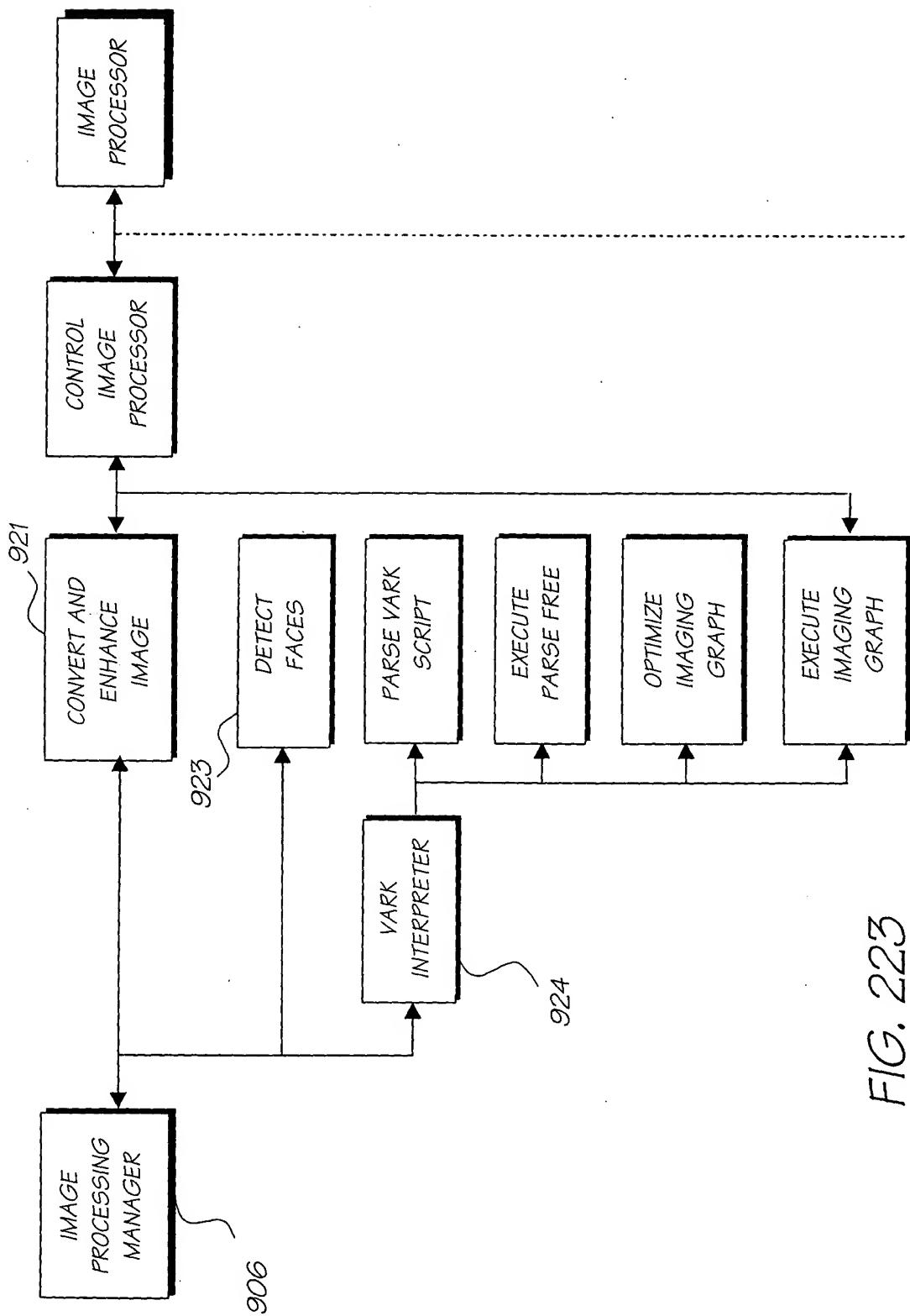


FIG. 223

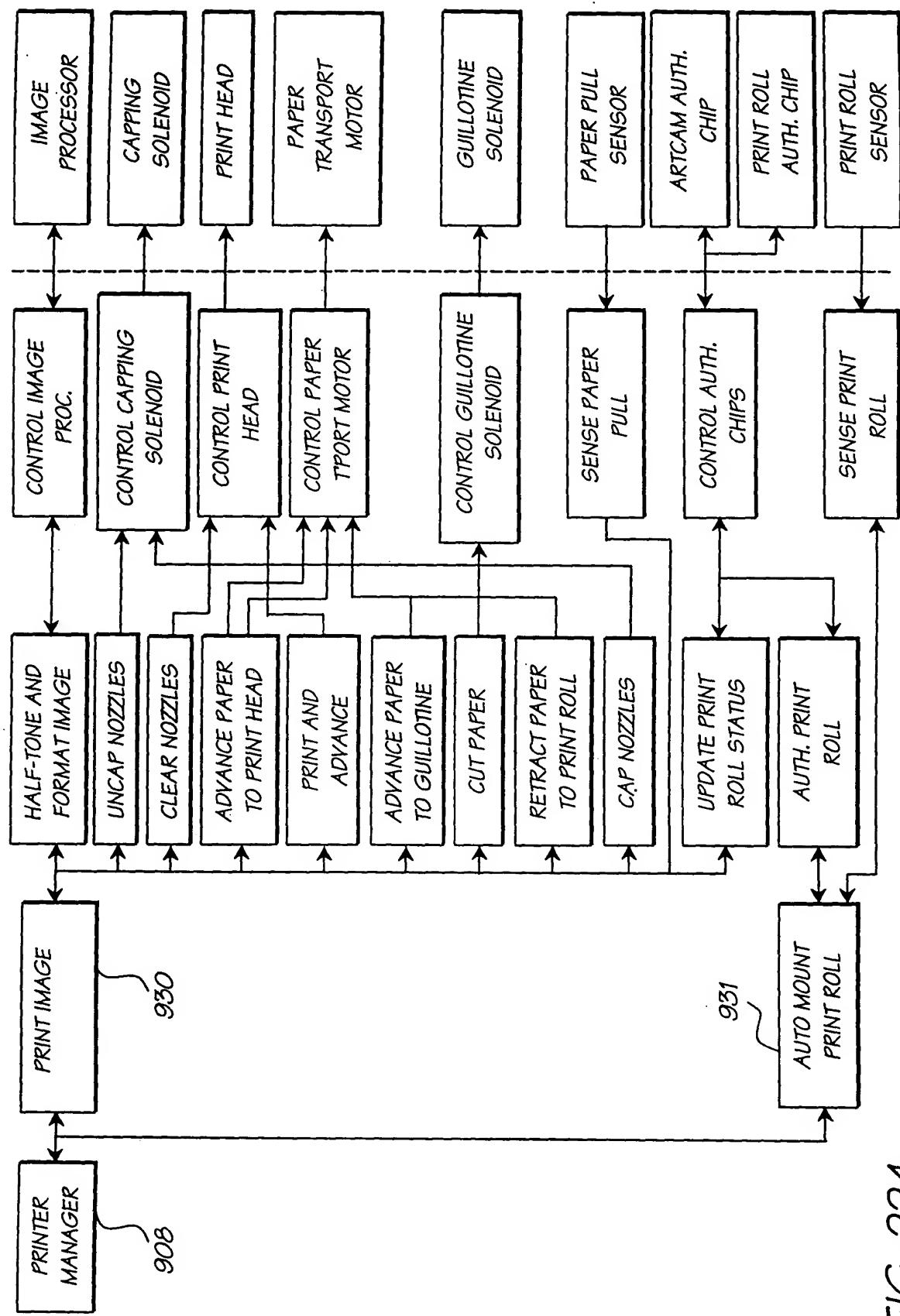


FIG. 224

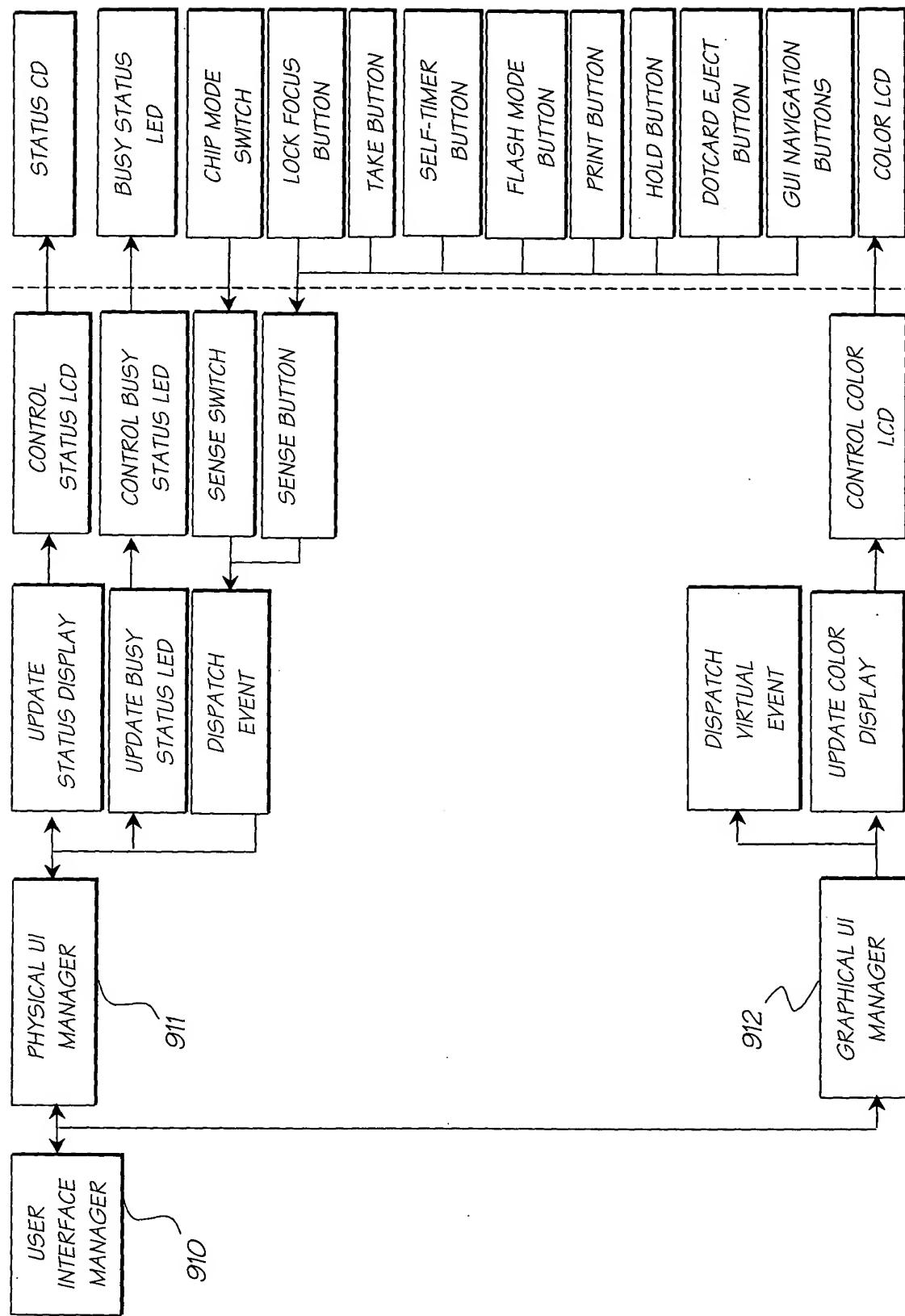


FIG. 225

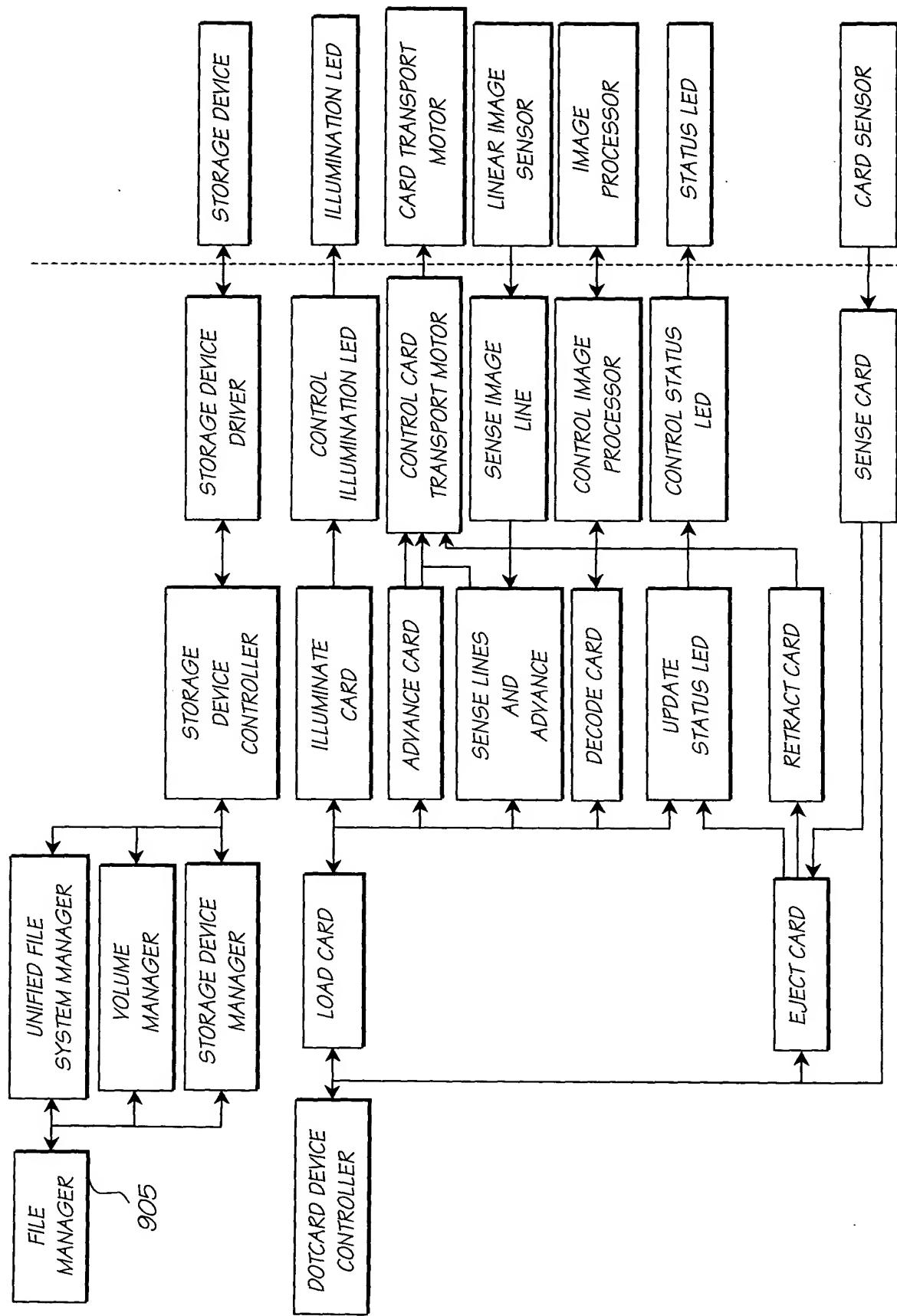


FIG. 226

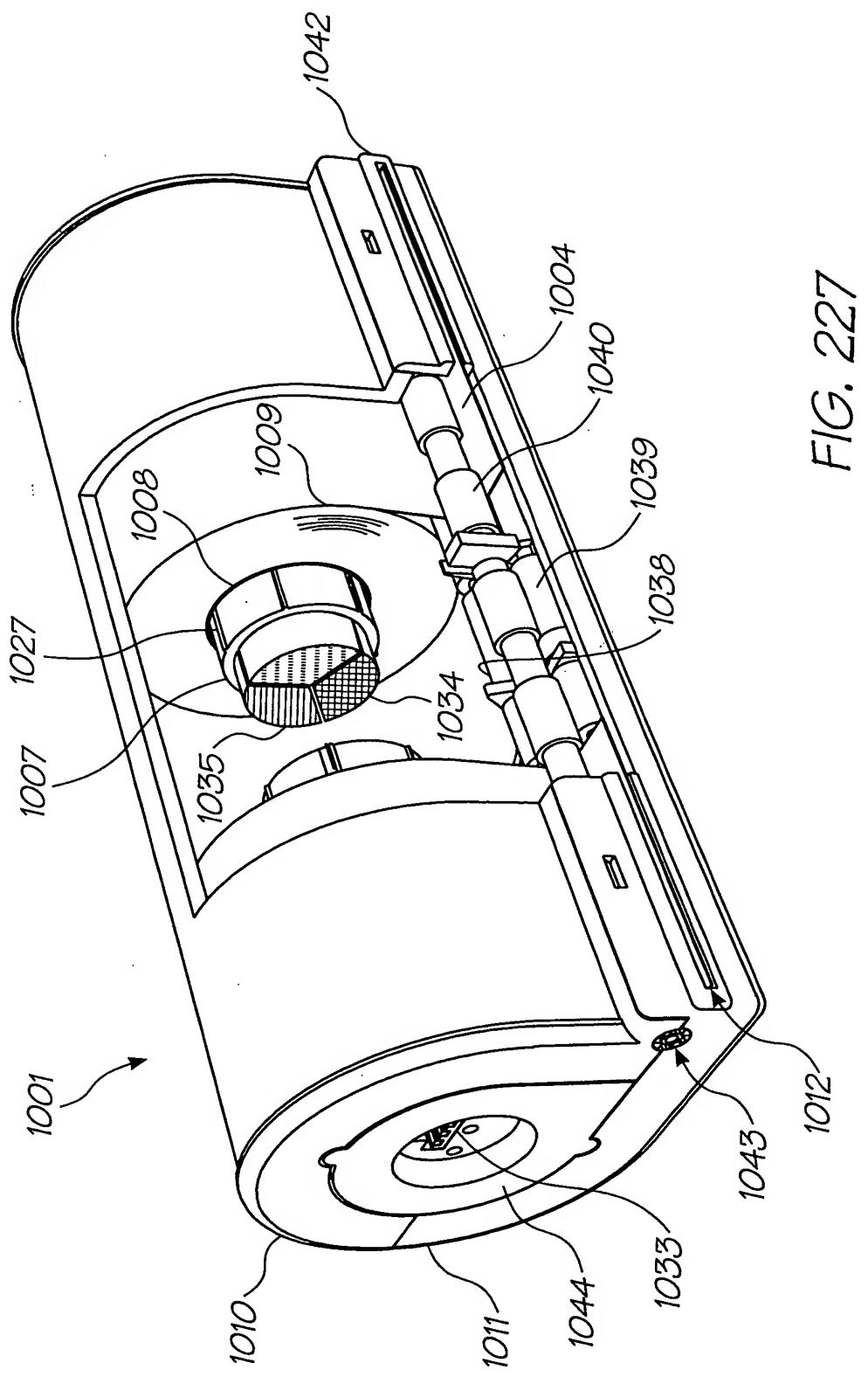


FIG. 227

FIG. 228

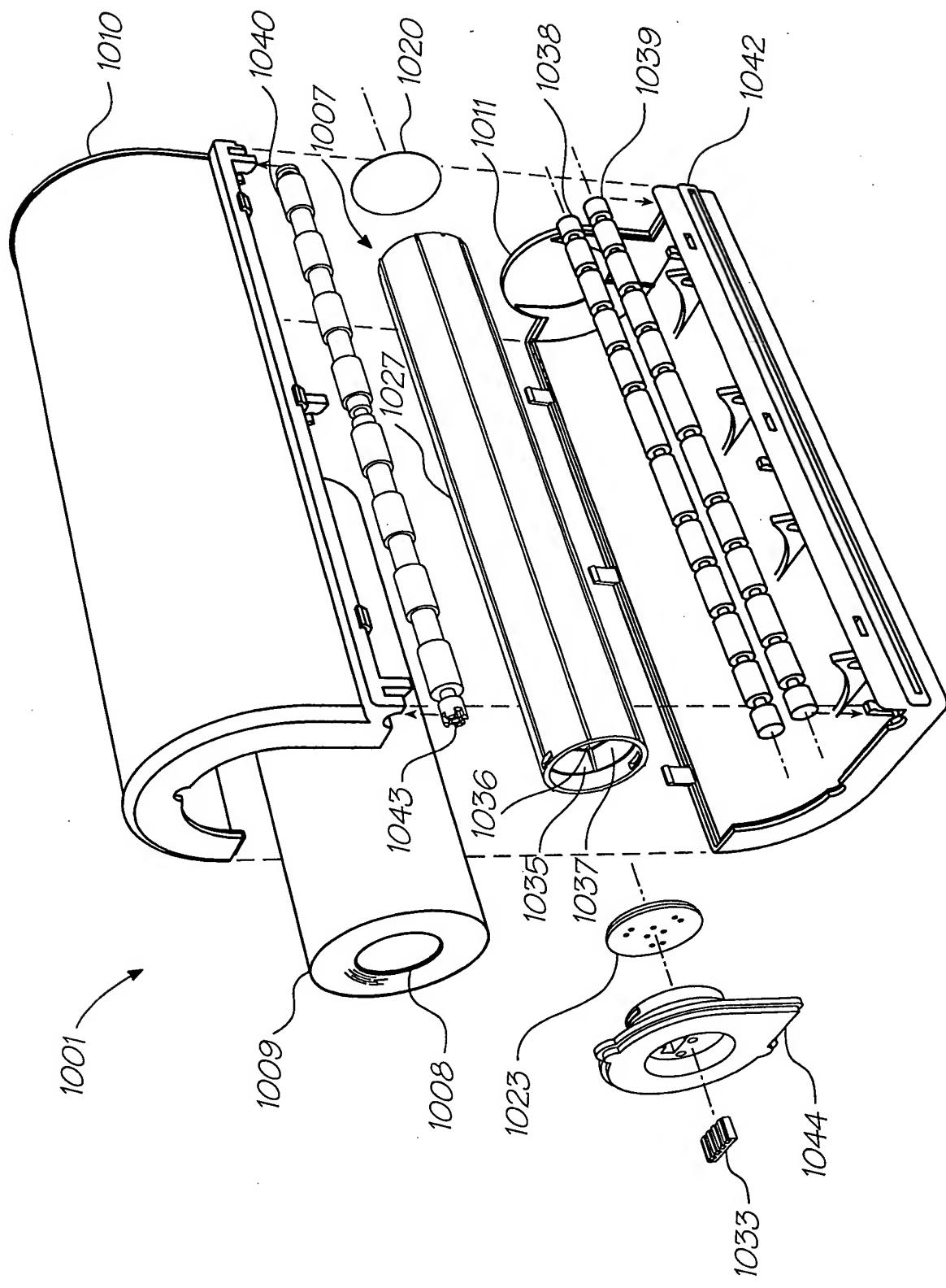
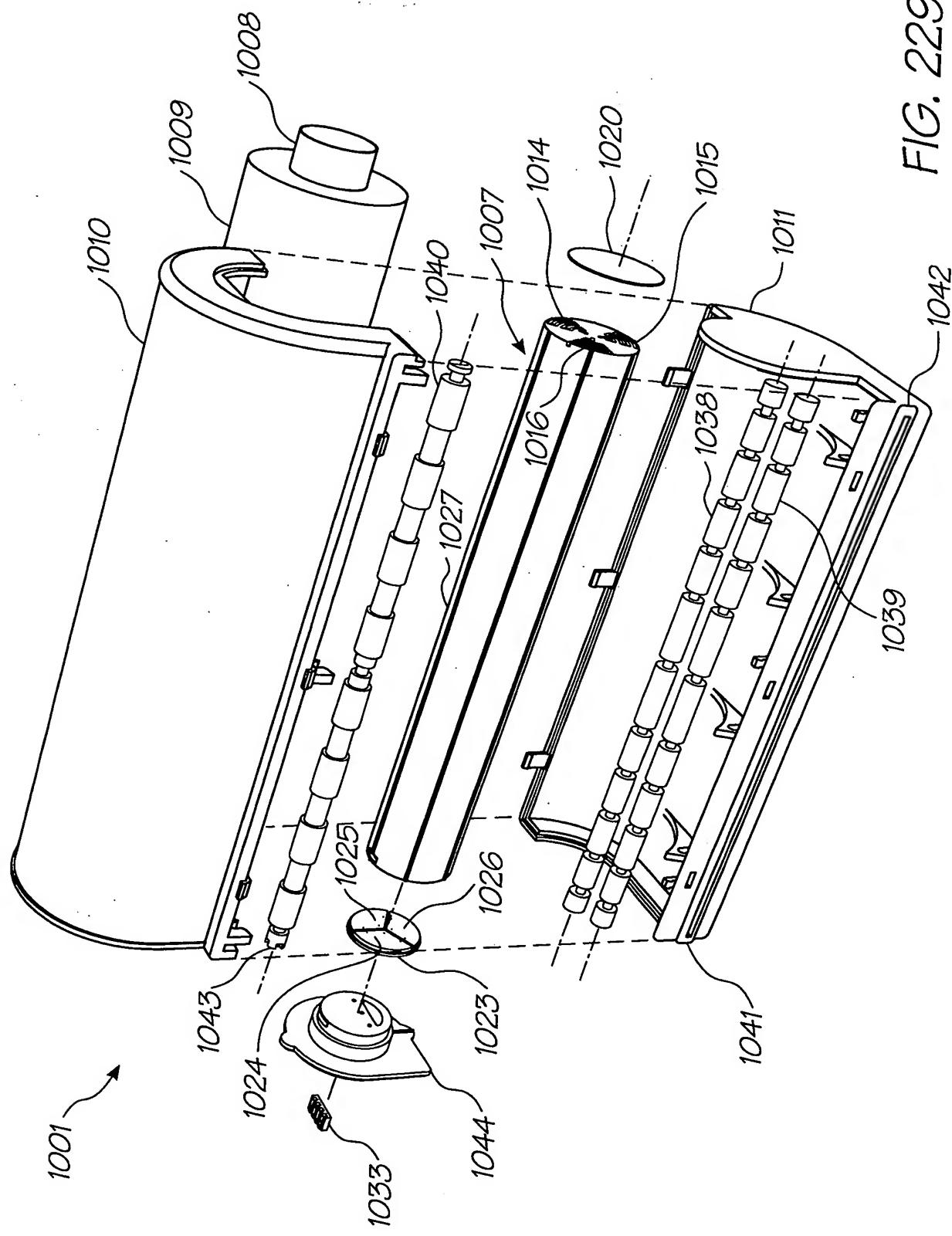


FIG. 229



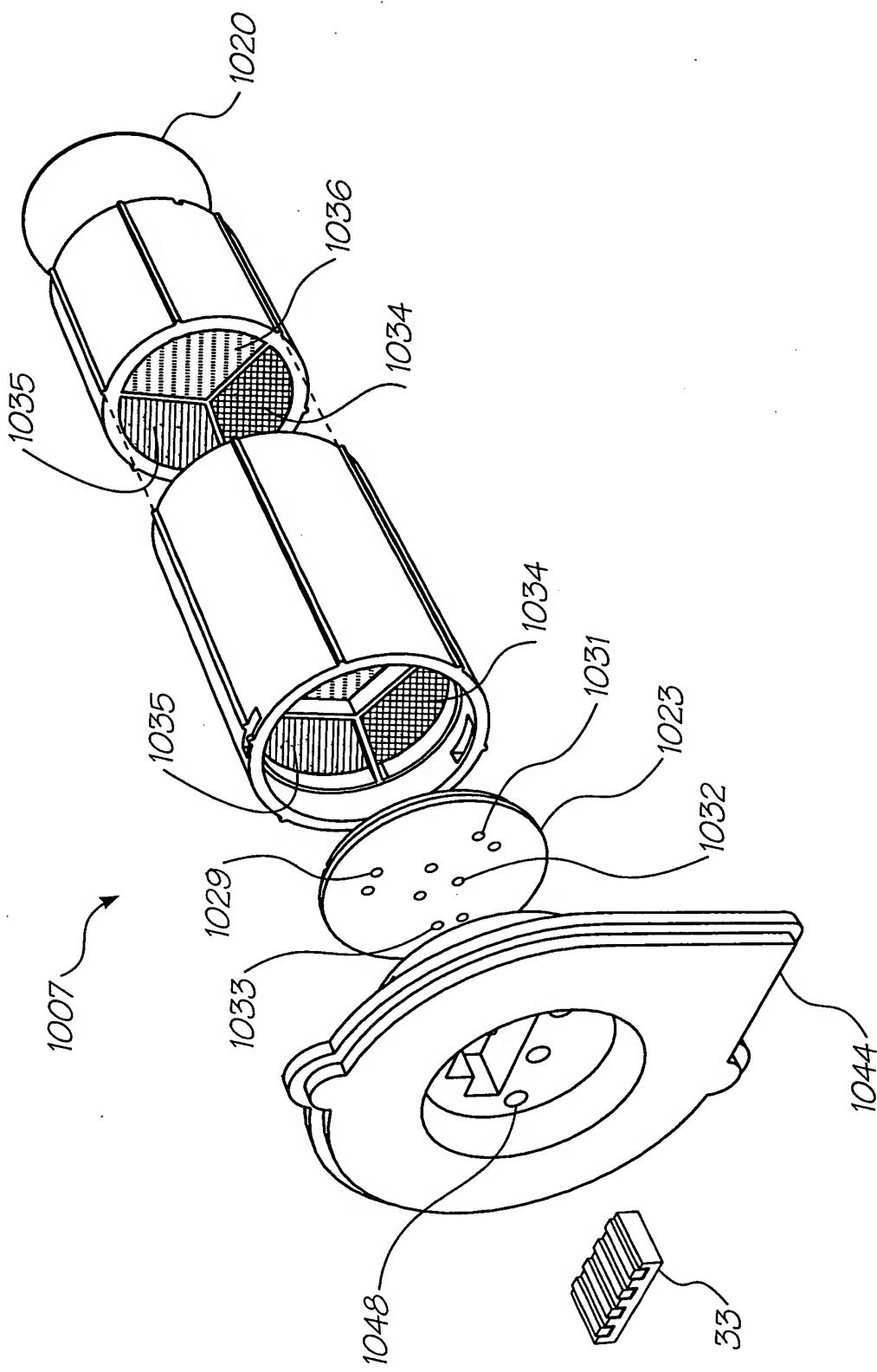


FIG. 230

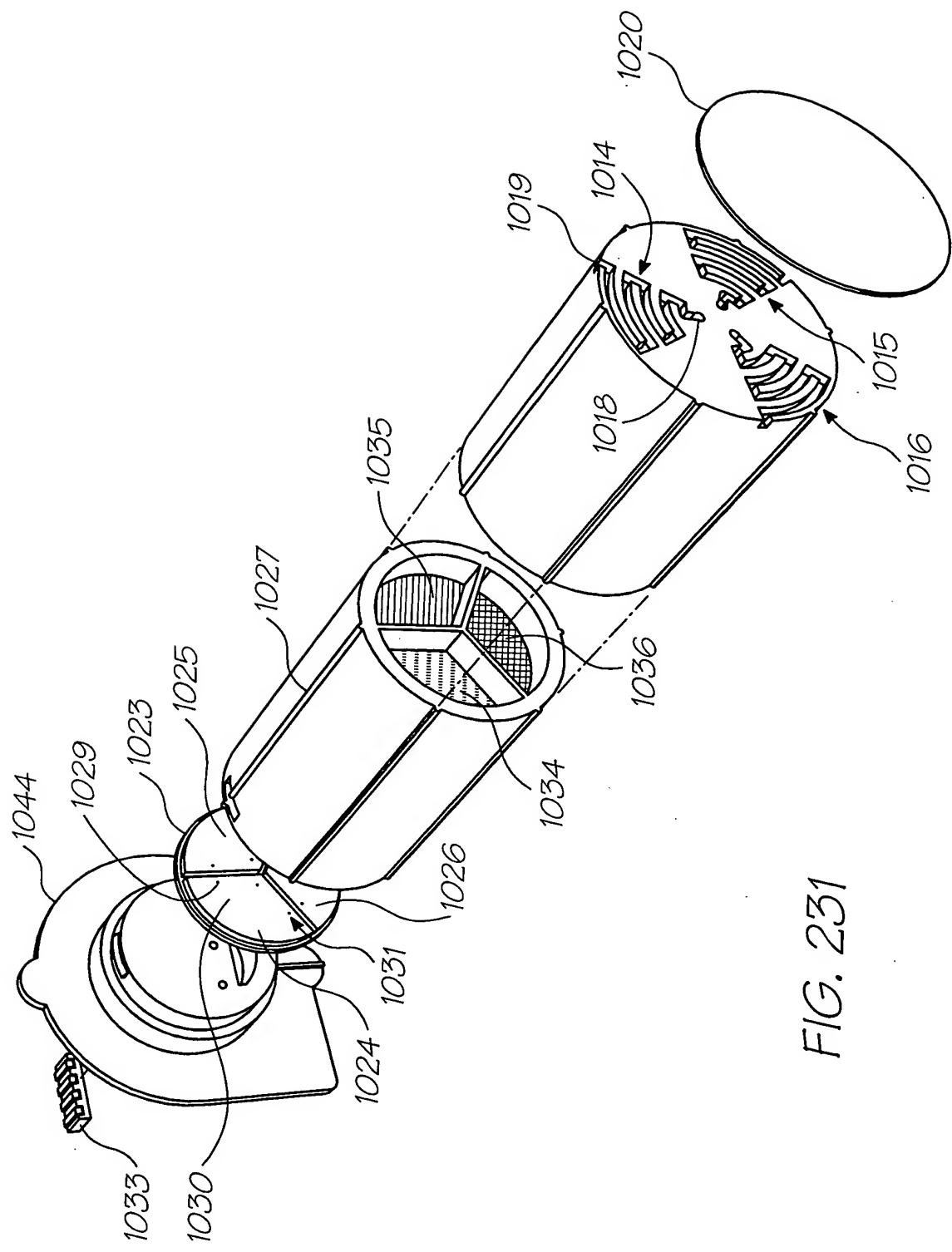


FIG. 231